EPA Registration No. 87583-2 Vol. 2



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

Kevin Kutcel
Agent for PureShield Inc.
KRK Consulting LLC
5807 Churchhill Way
Medina,OH 44256

FFICE OF CHEMICAL SAFETY
ND POLLUTION PREVENTION

SUBJECT:

Bio-Protect AM 500

EPA Registration Number: 87583-2 Application Date: December 3, 2013 Receipt Date: December 9, 2013 DEC 11 0 2013

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above sub nitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

Propose the alternate brand name: "XMicrobe".

Based on a review of the submitted information, this notification is unac eptable. Your proposed alternate brand name is false and misleading. It is too broad – you product is only a microbiostatic agent that inhibits the growth of odor causing bacteria, bacteria, which cause staining and discoloration, (fungi) mold and mildew and algae.

Additionally, you must pay attention to the Agency letter dated April 9, 2013 concerning use directions for padding, fogging and using foam finishing techniques.

General Comments

Should you have any questions concerning this letter, please contact Em lia Oiguenblik at (703) 347-0199 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble

Product Manager (31)

Regulatory Management B₁ anch I Antimicrobials Division (7: 10P)

XMicrobe

MICROBIOSTATIC AGENT * A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	. 5.0%
Other Ingredients:	95.0%
TOTAL INGREDIENTS:	00.0%

WARNING

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of BIOPROTECT 500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIOPROTECT 500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding BIOPROTECT 500 to water or other solvents (for example, alcohol and ketones) and stirring. BIOPROTECT 500 can be diluted by following:

Amount of	1 quart	0.5 gallon	1.0 gallon	5.0 gallors
Water	(32 fl. oz.)	(64 fl.oz.)	(128 fl. oz.)	
BIOPROTECT 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

BIOPROTECT 500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces BIOPROTECT 500 per cubic feet of concrete. Add to water before addition of concrete. Addition of BIOPROTECT 500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

BIOPROTECT 500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of BIOPROTECT 500 per 100 pounds of paint or coating (or 1 pound BIOPROTECT 500 per 20 pounds paint/coating). The addition of the antimicrobial agent (BIOPROTECT 500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. BIOPROTECT 500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete
 sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- BIOPROTECT 500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities . .

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. •. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2 oz per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon

of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet. For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and

- Polyurethane and polyethylene foam, when covered

- Polyurethane foam for packaging and cushioning in non-food contact applications

- Polyurethane foam used as a growth medium for non-food crops and plants

- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in BIOPROTECT 500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets,	Odor-causing bacteria,		DIP/SOAK: Dilute BIOPROTECT 500: in water; mix well. Use appropriate sized

Air filters and air filter material for:	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	SPRAY: Dilute BIOPROTECT 500 in water; mix well. When treating filters,
	Pest controlled	Dilution Rate	Method of Application
rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). BIOPROTECT 500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	mildew)		larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw	bacteria which cause staining and discoloration, and fungi (mold and	1 oz / pint	wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For

 Furnaces, air conditioners Air purification systems Automobiles Recirculating air handling systems Vacuum cleaner filters Aquariums 	bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	1 oz / pint	remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	Dilution Rate	Method of Application
Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted BIOPROTECT 500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months of when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution	Method of Application •
Mattress pad and mattress ticking	Odor-causing bacteria,	Rate 8 oz / gallon 2 oz / quart	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surfaces prior to.

and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, rayon, or wool	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
WOOI	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized wash basin or tub for dipping soaking the item you are treating. Use sargugh BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area

			prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
Roofing materials (such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	controlled controlled Rate Odor-causing bacteria, bacteria bacteria which cause staining and discoloration, fungi (mold uch as stone, controlled Rate 8 oz / gallon 2 oz / quart 1 oz / pint 1 oz / pint Rate	8 oz / gallon 2 oz / quart	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of BIOPROTECT 500, let stand until dry. BIOPROTECT 500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staning and discoloration due to bacteria, mold stans, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops,	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	SPRAY: Dilute BIOPROTECT 500 in : water; mix well. Using a trigger pump

shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed tiles, glazed porcelain, synthetic marble, plastic, vinyl	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
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MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR BIOPROTECT 500 is an antimicrobial agent effective against odor-causing bacteria.

BIOPROTECT 500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

BIOPROTECT 500 is an antimicrobial agent effective against fungi (mold and mildew).

BIOPROTECT 500 is an antimicrobial agent effective against algae.

BIOPROTECT 500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic. BIOPROTECT 500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

BIOPROTECT 500, and antimicrobial agent, inhibits the growth of odor causing bacteria. Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause stathing and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria. Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria,

bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).

Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Handling: (containers intended for residential users) Nonrefillable/container. Do not reuse or refill the container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Container Handling: (containers intended for nonresidential users, larger than 5 gallons)
Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ½ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by includeration.

XMicrobe

MICROBIOSTATIC AGENT •

A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	5.0%
Other Ingredients:	95.0%
TOTAL INGREDIENTS:	00.0%

WARNING

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of BIOPROTECT 500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIOPROTECT 500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding BIOPROTECT 500 to water or other solvents (for example, alcohol and ketones) and stirring. BIOPROTECT 500 can be diluted by following:

Amount of	1 quart	0.5 gallon	1.0 gallon	5.0 gallons
Water	(32 fl. oz.)	(64 fl.oz.)	(128 fl. oz.)	
BIOPROTECT 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

BIOPROTECT 500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces BIOPROTECT 500 per cubic feet of concrete. Add to water before addition of concrete. Addition of BIOPROTECT 500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

BIOPROTECT 500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of BIOPROTECT 500 per 100 pounds of paint or coating (or 1 pound BIOPROTECT 500 per 20 pounds paint/coating). The addition of the antimicrobial agent (BIOPROTECT 500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. BIOPROTECT 500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- BIOPROTECT 500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of BIOPROTECT 500 per gallon of water & oz. per quart; loz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making surface is completely covered. Apply and then let stand until dry or let stand 3 minutes.

sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon

of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet. For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; loz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, hatural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in BIOPROTECT 500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets,	Odor-causing bacteria,		DIP/SOAK: Dilute BIOPROTECT 500: in water; mix well. Use appropriate sized

Air filters and air filter material for:	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	SPRAY: Dilute BIOPROTECT 500 in water; mix well. When treating filters,
	Pest controlled	Dilution Rate	Method of Application
			when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
			drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or
			moist cloth or sponge. Test staining and color-fastness of fabric by treating and
and woon.			minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with
rayon, silk, spandex, vinyl, and wool.			surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3
polyolefins, polypropylene,			application. Using a trigger pump sprayer or pressure sprayer, spray the entire
orlon, polyester, polyethylene,			SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to
fiberglass, linen, Lycra, nylon,			and mildew stains return.
made of acetates, acrylics, cotton,			months or when odor, staining and discoloration due to bacteria, mold stains,
500 can be applied to fabrics			example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three
jerseys, ponchos). BIOPROTECT			at room temperature or at temperatures to a maximum of 160°C (320°F); (for
raincoats, overcoats,			dipping/soaking. Dry treated articles before use. Substrates can be hang-dried
sweatshirts, coats,			Do not reuse solution after
outerwear apparel (jackets, sweaters,			fabric and carpets by treating and drying a small concealed area prior to application.
shower curtains, shoe insoles,			spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of
rugs, toweling, toilet tank covers,	mildew)		larger items (e.g. bedspreads, curtains, draperies), place in washing machine on
hosiery, throw	(mold and		wring excess liquid from treated item. For
underwear, socks, intimate apparel,	discoloration, and fungi		completely submerge item. Keep item in solution for 3 minutes. Remove item and
(washable only),	staining and		BIOPROTECT 500 solution to
bedspreads, curtains, draperies	bacteria which cause	1 oz / pint	wash basin or tub for dipping/soaking the item you are treating. Use enough

 Furnaces, air conditioners Air purification systems Automobiles Recirculating air handling systems Vacuum cleaner filters Aquariums 	bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	l oz/pint	remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	Dilution Rate	Method of Application
Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted BIOPROTECT 500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months of when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
Mattress pad and mattress ticking	controlled Odor-causing bacteria,	Rate 8 oz / gallon 2 oz / quart	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surfaces prior to

and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, rayon, or wool	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
	controlled	Rate	CDD 444 Dill DIODD OFFICE 500 :
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to
sans, ropes.	bacteria	l oz / pint	application. Using a trigger pump sprayer
	which cause	1	or pressure sprayer, spray the entire
	staining and		surface area 4"-6" from the surface,
	discoloration,		making sure the surface is completely
	fungi (mold		covered. Let stand until dry or let stand 3
	and mildew),		minutes and wipe dry with cloth or
	and algae		sponge. If spotting occurs, wipe with
			moist cloth or sponge. Test staining and
			color-fastness of fabric by treating and
			drying a small concealed area prior to
			application. If necessary, reapply
			BIOPROTECT 500 every three months or when odor, staining and discoloration due
			to bacteria, mold stains, and mildew stains
			return.
			DIP/SOAK: Dilute BIOPROTECT 500
			in water; mix well. Use appropriate sized
			wash basin or tub for dipping/soaking the
			item you are treating. Use enough
			BIOPROTECT 500 solution to
			completely submerge item. Keep item in
			solution for 3 minutes. Remove item and
			wring excess liquid. Test staining and
			color-fastness of fabric and carpets by
		l	treating and drying a small concealed area

			prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Roofing materials (such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of BIOPROTECT 500, let stand until dry. BIOPROTECT 500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application :
Tubs, glazed tile,	Odor-causing	8 oz / gallon	SPRAY: Dilute BIOPROTECT 500 in

shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed tiles, glazed porcelain, synthetic marble, plastic, vinyl	bacteria which cause staining and discoloration, and fungi (mold and mildew)	1 oz / pint	sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
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MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR BIOPROTECT 500 is an antimicrobial agent effective against odor-causing bacteria.

BIOPROTECT 500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

BIOPROTECT 500 is an antimicrobial agent effective against fungi (mold and mildew).

BIOPROTECT 500 is an antimicrobial agent effective against algae.

BIOPROTECT 500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic. BIOPROTECT 500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

BIOPROTECT 500, and antimicrobial agent, inhibits the growth of odor causing bacteria. Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria,

bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).

Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Handling: (containers intended for residential users) Nonrefillable/container. Do not reuse or refill the container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Container Handling: (containers intended for nonresidential users, larger than 5 gallons)
Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

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5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

December 3, 2013

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the alternate brand name "XMicrobe" per PR Notice 1998-10.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,

Agent for PureShield Inc.



United States Environmental Protection Age

Registration
Amendment
Other

OPP Identifier Number

ACLA	Washi	ngton, DC 20460	Agency		× Oth	endme 1er	nt	
		Application f	or Pesti	cide - Sec	tion I			
1. Company/Product Number PureShield, Inc. / 87583-2				A Product Mai na Noble	neger			ed Classification
4. Company/Product (Name) PureShield, Inc. / Bio-Protect AM500			PM# 31	PM# L			× No	ne Restricted
5. Name and Address of App PureShield Inc. 1445 Jupiter Park, Suite Jupiter, FL 33458 X Check If this		de)	(b)(i), to: EPA		is similar o	r identical	in compo	RA Section 3(c)(3) osition and labeling
			Section ·	- 11				
Amendment - Explain Resubmission in resp X Notification - Explain	onse to Agency letter	dated	[Agency let	ed labels in retter dated Application.	_		
Please see cover letter for	r alternate brand na		Section -	161				
			section -	1111				
1. Material This Product Will Child-Resistant Packaging Yes No Certification must be submitted	Unit Packaging Yes X No H "Yes" Unit Packaging wgt.	No. par	Yes X No "Yes" seckage wgt	No. per contain		X P	ntainer Actal Isstic Isss aper other (Spec	ify)
3. Location of Net Contents	Information	4. Size(s) Retail C 2,4,8,16,5	Container	502	5. Location	n of Label I	Directions	
X Label C	Container	1,5,55,15	0,300	gul/		in Labeling	accompan	ying product
6. Manner in Which Label is	Affixed to Product	Lithograph Paper glue Stenciled	d	Oth	er			
			Section -	IV				
1. Contact Point (Complete	items directly below	for identification of	individual to	be contacted	, if necesser	y, to proce	es this app	Scation.)
Name Kevin Kutcel		Title	ent				lephone No 10-263-73	(Include Area Code)
I certify that the state I acknowledge that ar both under applicable 2. Signature	y knowingly false or s	mideeding stateme	ettschments ent may be po				ete.	Date Application Received (Stamped)
4. Typed Name		5. D	ent					••••
Kevin R. Kutcel		12	/3/2013					••

Material Sent for Data Extraction

Reg # 87583-2

De	scription	
D	Materia	I(s) Sent to Data Extraction Contractors:
		New Stamped Label Dated
		Notification Dated
		New CSF(s) Dated
		Other: Agency Letter
M	Decision	#: 47689/
	Other Ac	tion/Comments:
mus The Info	st be well on give the ormation So	versheet to the top of the material or jacket. It organized and clipped together, NOT STAPLED. material with this coversheet to staff in the ervices Center (Room S-4900).
Re	viewer: _	E. Orguenbl. L
Ph	one: _ 34	17-0199 Division: <u>AB</u>
	te: d February 3, 2011	

Kevin Kutcel Agent for PureShield 5807 Churchill Way Medina, Ohio 44256

APR 9 2013

Dear Mr. Kutcel:

We have recently revised the labels and found that the products, which have Registration Numbers 87583-2 and 87583-3 can be applied using a variety of application methods. However, several of the listed application methods do not contain directions on how to apply this product using the listed application methods. Specifically there are no directions on how to apply this product by padding, foam finishing and fogging.

You must add directions on how to apply this product using above application methods. Alternatively, you can remove one or more of those application methods from the label.

Revise labels either removing the application methods described above or adding appropriate directions on how to apply the product by that method. You must send revised labels to the Agency within 30 days from the date of this letter.

If you have any questions concerning this letter please contact Emilia Oiguenblik at (703) 347 0199 or Velma Noble at (703) 308-6233.

Sincerely,

Devalla Copeland Velma Noble

Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7510P)

Printed on Recycled Paper

Material Sent for Data Extraction

Reg # 87583-2

Description:
Material(s) Sent to Data Extraction Contractors:
New Stamped Label Dated
Notification Dated
New CSF(s) Dated
☐ Other:
Decision #: 93/639
☐ Other Action/Comments:
Attach this coversheet to the top of the material or jacket. In must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).
Reviewer: E. Oignen &s.h
Phone: 347-499 Division: AB
Date: Created February 3, 2011

MAR 2 1 2013

Kevin Kutcel, Agent for PureShield Inc. KRK Consulting LLC 5807 Churchhill Way Medina,OH 44256

SUBJECT:

Bio-Protect AM 500

EPA Registration Number: 87583-2 Application Date: February 25, 2013 Receipt Date: February 27, 2013

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

• The addition of a chart on page 2 of label which presents the same use directions already approved by EPA in narrative form per PR Notice 98-10.

Based on a review of the submitted information, this notification is acceptable. Your proposed change will be made part of the record for this file.

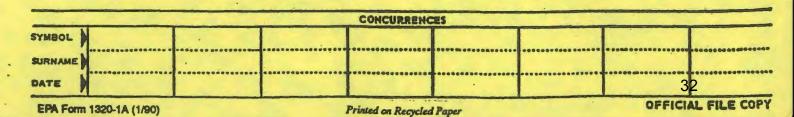
General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,

Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7510P)







MICROBIOSTATIC AGENT *

A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	
Other Ingredients: 95.0%	
TOTAL INGREDIENTS: 100.0%	

KEEP OUT OF REACH OF CHILDREN WARNING

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

^{*}A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of BIOPROTECT 500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of BIOPROTECT 500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding BIOPROTECT 500 to water or other solvents (for example, alcohol and ketones) and stirring. BIOPROTECT 500 can be diluted by following:

Amount of Water	1 quart (32 fl. oz.)	0.5 gallon (64 fl.oz.)	1.0 gallon (128 fl. oz.)	5.0 gallons
BIOPROTECT 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

BIOPROTECT 500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces BIOPROTECT 500 per cubic feet of concrete. Add to water before addition of concrete. Addition of BIOPROTECT 500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

BIOPROTECT 500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of BIOPROTECT 500 per 100 pounds of paint or coating (or 1 pound BIOPROTECT 500 per 20 pounds paint/coating). The addition of the antimicrobial agent (BIOPROTECT 500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. BIOPROTECT 500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers

- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- BIOPROTECT 500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry

treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2 oz. per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet. For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Dilute 8 ounces of BIOPROTECT 500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in BIOPROTECT 500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)

- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in BIOPROTECT 500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. BIOPROTECT 500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

items to impart o			and mildew) activity.
	Pest	Dilution	Method of Application
D 11	controlled	Rate	DIRECTOR OF THE PROPERTY OF TH
Bedsheets,	Odor-causing	8 oz / gallon	DIP/SOAK: Dilute BIOPROTECT 500
blankets,	bacteria,	2 oz / quart	in water; mix well. Use appropriate sized
bedspreads,	bacteria	1 oz / pint	wash basin or tub for dipping/soaking the
curtains, draperies	which cause		item you are treating. Use enough
(washable only),	staining and		BIOPROTECT 500 solution to
underwear, socks,	discoloration,		completely submerge item. Keep item in
intimate apparel,	and fungi		solution for 3 minutes. Remove item and
hosiery, throw	(mold and		wring excess liquid from treated item. For
rugs, toweling,	mildew)		larger items (e.g. bedspreads, curtains,
toilet tank covers,	•		draperies), place in washing machine on
shower curtains,			spin cycle to aid in the removal of excess
shoe insoles,			liquid. Test staining and color-fastness of
outerwear apparel			fabric and carpets by treating and drying a
(jackets, sweaters,			small concealed area prior to application.
sweatshirts, coats,			Do not reuse solution after
raincoats,			dipping/soaking. Dry treated articles
overcoats,			before use. Substrates can be hang-dried
jerseys, ponchos).			at room temperature or at temperatures to
BIOPROTECT			a maximum of 160°C (320°F); (for
500 can be			example, in a clothes dryer). If necessary,
applied to fabrics			reapply BIOPROTECT 500 every three
made of acetates,			months or when odor, staining and
acrylics, cotton,			discoloration due to bacteria, mold stains,
fiberglass, linen,			and mildew stains return.
Lycra, nylon,			
orlon, polyester,			SPRAY: Dilute BIOPROTECT 500 in
polyethylene,			water; mix well. Clean surface prior to
polyolefins,			application. Using a trigger pump sprayer
polypropylene,			or pressure sprayer, spray the entire
rayon, silk,			surface area 4"-6" from the surface,
spandex, vinyl,			making sure the surface is completely
and wool.			covered. Let stand until dry or let stand 3
and woon.			minutes and wipe dry with cloth or
			sponge. If spotting occurs, wipe with
			moist cloth or sponge. Test staining and
			color-fastness of fabric by treating and
			drying a small concealed area prior to
			application. If necessary, reapply
			BIOPROTECT 500 every three months or
			when odor, staining and discoloration due
			to bacteria, mold stains, and mildew stains
			return.

	Pest controlled	Dilution Rate	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	Dilution Rate	Method of Application

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted BIOPROTECT 500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. BIOPROTECT 500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more BIOPROTECT 500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
Matters and and	controlled	Rate	CDD A.V. Diluta DIODDOTECT 500
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags, apparel, where	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply BIOPROTECT 500 every three

the fiber is cotton, natural down, nylon, rayon, or wool			months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute BIOPROTECT 500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough BIOPROTECT 500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Roofing materials (such as shingles, roofing granules,	Odor-causing bacteria, bacteria	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Make sure the roof or wall is clean prior to application. Using a

wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	which cause staining and discoloration, fungi (mold and mildew), and algae		trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of BIOPROTECT 500, let stand until dry. BIOPROTECT 500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	controlled Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	Rate 8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute BIOPROTECT 500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply BIOPROTECT 500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

porcelain,		
synthetic marble,		
plastic, vinyl		

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR BIOPROTECT 500 is an antimicrobial agent effective against odor-causing bacteria.

BIOPROTECT 500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

BIOPROTECT 500 is an antimicrobial agent effective against fungi (mold and mildew).

BIOPROTECT 500 is an antimicrobial agent effective against algae.

BIOPROTECT 500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic. BIOPROTECT 500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

BIOPROTECT 500, and antimicrobial agent, inhibits the growth of odor causing bacteria. Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria,

bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew). Provides/creates an invisible barrier to inhibit the growth of algae. Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Handling: (containers intended for residential users) Nonrefillable/container. Do not reuse or refill the container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Container Handling: (containers intended for nonresidential users, larger than 5 gallons) Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.



MICROBIOSTATIC AGENT •

A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride5.0%
Other Ingredients:
TOTAL INGREDIENTS: 100.0%

WARNING

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

^{*}A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

KRK Consulting LLC

5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

February 25, 2013

Ms. Velma Noble – PM 31
US Environmental Protection Agency (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for Addition of Table in Use Directions (EPA No. 87583-2)

Dear Ms. Noble,

On October 30, 2012, I sent you a notification with the addition of a table on page 2 for Reg. No. 87583-2 per PR Notice 1998-10. You responded with a letter dated November 28, 2013 stating that the addition of the table on page 2 is acceptable, but changes indicated on your EPA letter dated September 7, 2010 had not been included on the label, so it could not be accepted. A copy of your letter is included with this notification.

Please find attached a highlighted label with the same changes of the table addition on page 2 and the strikeout of 2 sentences of the narrative use directions as allowed in PR Notice 1998-10. These minor changes makes the label much clearer to understand and does not change the dilution ratios of the product. In addition, the changes indicated in your September 7, 2010 letter are included in this label. Three (3) copies of the changed label are also included with this notification.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,

Agent for PureShield Inc.

Please read instructions on	reverse before comu	og form.			Form App	roved.	OME TO 2	070-006	Print Form
⊕EPA	Environmenta	United States		ency		×	Registra Amend Other	ation	OPP Identifier Number
		Application	1 for	Pestic	ide - Sec	tion	1		
1. Company/Product Number PureShield Inc. / 87583-2			2. EPA Product Meneger Velma Noble					roposed Classification	
4. Company/Product (Name PureShield Inc. / Bio-Pro	tect AM500		PM# 31					16	None Restricted
5. Name and Address of Applicant (Include ZIP Code) PureShield Inc. 1445 Jupiter Park Drive, #11 Jupiter, FL 33458 X Check If this is a new address				6. Expedited Review. In accordance with FIFRA Section 3(c (b)(i), my product is similar or identical in composition and labe to: EPA Reg. No Product Name					
			Se	ction -	11				
Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below.				- [Final prints Agency let "Me Yee" Other - Exp	ter de Applio	stion.	e to	
			Sec	ction -	DI .				
Material This Product WI Child-Resistant Packaging			1	- Outstand			la sand		4
Yes* No	Unit Packaging Yes X No		Weter Soluble Peckaging Yes No				2. Type of	Metal Plantic Glass	
 Certification must be submitted 	If "Yee" Unit Packaging wgt	No. per t. container	If "Yes" No. per Package wgt container			F	Peper Other (Specify)		
3. Location of Net Contents	Information Container	4. Size(s) Retai	il Cont	ainer			Location of Label Directions On Label On Labeling accompanying product		Total Control of the
6. Menner in Which Label is	Afficed to Product	X Lithogra Peper gi Stenoile	hograph per glued enoiled						
			Sec	tion -	V				
1. Contact Point /Complete	Items directly below	for identification	of ind	ividual to i	be contacted,	If nec	essery, to p	rocess thi	application.)
Name Kevin Kutcel			Compulation				elephone No. (Include Area Code) 140-263-7305		
I certify that the state I acknowledge that as both under applicable	w knowingly false or		d attac						6. Date Application Received (Stamped)
2. Signeture	that		3. Title Agent						
4. Typed Name Kevin Kutcel			5. Dete 2/25/2013						

Kevin Kutcel, Agent for PureShield Inc. KRK Consulting LLC 5807 Churchhill Way Medina,OH 44256

NOV 28 2012

SUBJECT:

Bio-Protect AM 500

EPA Registration Number: 87583-2 Application Date: October 31, 2012 Receipt Date: November 5, 2012

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

• Propose the alternate brand name: "HealthinEx Plus".

Based on a review of the submitted information, this notification is unacceptable. Your proposed alternate brand name is false and misleading, because it implies that the product can or will prevent or control disease or offer health protection.

General Comments

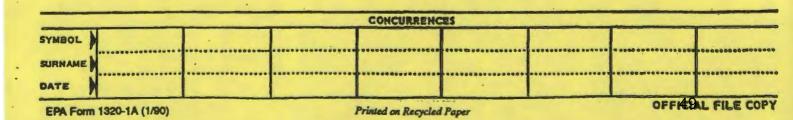
Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,

Velma Noble

Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7510P)



Kevin Kutcel, Agent for PureShield Inc. KRK Consulting LLC 5807 Churchhill Way Medina,OH 44256

NOV 29 2012

SUBJECT:

Bio-Protect AM 500

EPA Registration Number: 87583-2 Application Date: October 31, 2012 Receipt Date: November 5, 2012

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

• The addition of a chart on page 2 of label which presents the same use directions already approved by EPA in narrative form per PR Notice 98-10.

Based on a review of the submitted information the proposed addition of chart is acceptable, but your label does not contain changes required as per EPA letter dated September 7, 2010, so the Agency cannot accept this notification until your label is updated.

General Comments

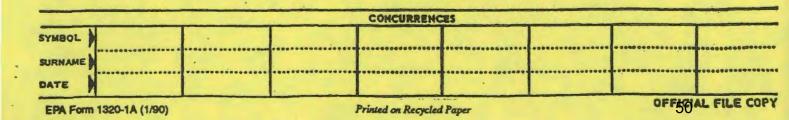
Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely

Velma Noble

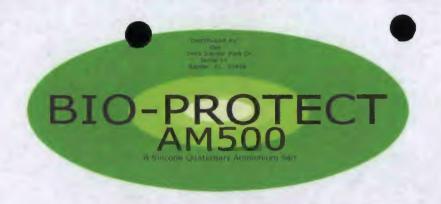
Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7510P)



RISK ASSIGNMENT FORM Antimicrobial Division/Regulatory Management Branch I

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Тур	ype of Action: Notification								e Symbol/Reg	
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MICROBIOSTATIC AGENT · A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chlor	ide 5.0%
Other Ingredients:	
TOTAL	
INGREDIENTS:	100.0%

WARNING

EPA Reg. No. 87583-2

EPA EST, 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to water or other solvents (for example, alcohol and ketones) and stirring. AM500 can be diluted by following:

Amount of	1 quart	0.5 gallon	1.0 gallon	5.0 gallons
Water	(32 fl. oz.)	(64 fl.oz.)	(128 fl. oz.)	
AM 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid dances

the adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones)

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques. to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

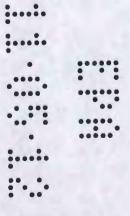
AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers

- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel



Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems. Air filters/materials Aquarium filter material Bed sheets, blankets, and bedspreads Buffer pads (abrasive and polishing) Carpets and draperies Cellulose sponges Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains Exterior walls (such as stone, concrete, brick) Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool Fiberglass duct board Fire hose fabric

Non-woven disposable diapersNon-woven polyester

Mattress pads and ticking

Men's underwear and outerwear

Humidifier belts

- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca

- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by

	Pest controlled	Dilution Rate	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
A: 61	Pest controlled	Dilution Rate	Method of Application
applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stain return.
(jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be			prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary,

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	spray: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	controlled Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	Rate 8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not
			reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Roofing materials	Odor-causing	8 oz / gallon	SPRAY: Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed	-		
porcelain, synthetic marble,			
plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria. Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew). Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

RISK ASSIGNMENT FORM Antimicrobial Division/Regulatory Management Branch I

A		С	ompleted b	y Product Ma	anager			
	REVIEWER:	Zm	· la			RMBI	TEAM 3	1
Type of Acti	ion:	Not. fi	intin	/		1	e Symbol/Reg	
Decision N	10.47/558	Submission	No.926	35/	ee for S	Service A	ction Code:	
QPA Actio	on Code: 337	Non-FQPA	Action Cod	e:	PRIA	FEE AMO	UNT:	
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APPLICATION	ON DATE	10	3/				2012	
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DATE PM RE	ECEIVED FROM						2012	
DATE SENT	TO SCIENCE							
DATE RECE	EIVED FROM							
DATE DUE	то РМ	Der	. 5					
Type of Data:	PSB Product Chemistry	PSB Acute Toxicology	PSB Efficacy	RASSB Environmen Fate	tal Ec	RASSB cological Effects	RASSB Chronic Toxicology	RASSB Exposure Residue
ATTACHME	Ot. f. ent.	7.2.5.71	CSF(S)	Em. (€-0∏	IERS.	
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HealthinEx Plus

MICROBIOSTATIC AGENT · A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride	5.0%
Other Ingredients:	
TOTAL	
INGREDIENTS:	100.0%

WARNING

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- · Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC., 1445 Jupiter Park Drive, Suite 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

Homeowner use: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to water or other solvents (for example, alcohol and ketones) and stirring. AM500 can be diluted by following:

Amount of	1 quart	0.5 gallon	1.0 gallon	5.0 gallons
Water	(32 fl. oz.)	(64 fl.oz.)	(128 fl. oz.)	
AM 500	4 fluid ounces	8 fluid ounces	16 fluid ounces	80 fluid ounces

The solution can then be applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

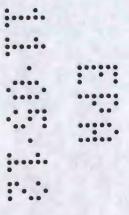
AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers

- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel



Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

App	roved	commercia	l applications	in homes	, offices, a	automobiles,	and institut	ons e	9
	sche	ools, hospita	ls, day care c	enters, ba	nks, chur	ches, correct	tional faciliti	es •	
			,,	,	,	*			•

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra

- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by

	Pest controlled	Rate	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	controlled Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae Pest	Rate 8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	Pest	Dilution	treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. Method of Application

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove, children and pets from treated area until completely dried. If necessary, reapply

	Pest	Dilution	discoloration due to bacteria, mold stains, and mildew stains return. Method of Application
			DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and
apparel, where the fiber is cotton, natural down, nylon, rayon, or wool Tents, tarpaulins, sails, ropes.	Pest controlled Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	Dilution Rate 8 oz / gallon 2 oz / quart 1 oz / pint	AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. Method of Application SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.





(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed		***************************************
porcelain,		
synthetic marble,		
plastic, vinyl		

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria. Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew). Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]



5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

October 31, 2012

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the alternate brand name "HealthinEx Plus" per PR Notice 1998-10.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,

Agent for PureShield Inc.

⊕EPA	Environmental	Protection A	gency		Amendment Other	
		Application fo	r Pesticide - S	ection I		
1. Company/Product Number PureShield Inc. / 87583-2			2. EPA Product Veima Nobie	Meneger		posed Classification
4. Company/Product (Name PureShield Inc. / Bio-Pro	tect AM500		PM6 31			None Restricted
PureShield Inc. 1445 Jupiter Park Drive, Jupiter, FL 33458			(b)(i), my product to: EPA Reg. No Product Nan	uct is similar		FIFRA Section 3(c)(3) nposition and labeling
		S	ection - II			
Amendment - Explain Resubmission in resp Notification - Explain	conse to Agency letter	dated	Ageno	inted labels / letter dated to " Applicati Explain belo	ion.	
		S	ection - III			
1. Material This Product Wi	II Se Packaged In:					
Child-Reelstant Packaging Yes* X No Cartification must	Unit Peckaging Yes X No H "Yes"	No. per If	Yes No.		2. Type of Container Metal Plestic Glass Paper	
be submitted	Unit Packaging wgt.	container Pe	okage wgt con	ininer	Other (S	pecify)
3. Location of Net Contents	Information Container	4. Size(s) Retail Co	ntainer	5. Loc	on Label Direction On Label On Labeling accom	
6. Menner in Which Label is		X Lithograph Paper glued Stanciled		Other		
		THE RESERVE AND ADDRESS OF THE PARTY OF THE	ection - IV			
1. Contact Point (Complete	items directly below	for identification of i	individual to be conta	cted, if nece	ssary, to process this	application.)
Name Kevin Kutcel		Title Age	nt			No. (Include Area Code)
I ecknowledge that a	ements I have made or my knowingly false or s	Certification this form and all at misleading statemen	techments thereto ar t may be punishable	e true, eccur by fine or im	rate and complete. prisonment or	6. Deta Application Received (Stamped)
both under applicable tew. 2. Signature 3.						
1//	fun	Con	sultant			

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

White - EPA File Copy (original)

Yellow - Applicant Copy



5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

October 30, 2012

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for Addition of Table in Use Directions (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with "notification of an addition of a table on page 2 of label" per PR Notice 1998-10. Attached is one copy of the proposed label in which the addition of a table clarifying the use directions already approved by the EPA in narrative form per PR Notice 1998-10. The one copy also shows the strikeout of 2 sentences of the narrative use directions as allowed in PR Notice 1998-10. Also enclosed are three (3) copies of the label with the changes made.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,

Agent for PureShield Inc.

Please reed instructions on	reverse before complet	ting (III)	Form A	SEL SAMPLE	CIVID 1904	70-0060	-	-
≎EPA	Environmental Protection Ages Washington, DC 20460			×	Registra Amend Other		OPP Identifier	Number
		Application for	Pesticide - Se	ction	1			
I. Company/Product Numb PureShield Inc. / 87583-			2. EPA Product N Velma Noble	lanager			oposed Classific	
4. Company/Product (Name PureShield Inc. / Bio-Pro	otect AM500		PM# 31				None	Restricted
5. Name and Address of Appreciation of Appreci			Product Nam	ct is sim				
		Sec	ction - II					
Amendment - Expla	sponse to Agency letter	deted	Agency -Me Too	nted label letter det o" Applica Explain be	ition.	to		
		Sec	tion - III					
Material This Product W Child-Resistant Packaging	Unit Packaging		Soluble Peckeging		2. Type of	Container		
					2. Type of	Container Metal Plastic Glass		
Child-Resistent Peckaging	Unit Packaging	Weter X	r Soluble Peckeging Yee No			Metal Plastic		
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Child-Resistant Packaging Yes No Cartification must be submitted Label	Unit Packaging Yes No If "Yes" Unit Packaging wgt. Information Container	No. per container Packs 4. Size(s) Retail Conta	Yee No	iner	× × × × × × × × × × × × × × × × × × ×	Metal Plastic Glass Paper Other (S	Specify)	
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Child-Resistant Packaging Yes* X No * Cartification must be submitted 3. Location of Net Content X Label 6. Menner in Which Label in 1. Contact Point /Complete Name	Unit Packaging Yes No If "Yes" Unit Packaging wgt. Is Information Container Is Affixed to Product	No. per container If "Ye Packs 4. Size(s) Retail Conts Lithograph Paper glued Stencifed Sec	Yes No se* No. pge wgt siner Outlon - IV	5. Lo	X cation of La On Labo On Labo	Metal Plastic Glass Paper Other (5 bel Directical sling accommendation of the control of the con	ons openying produc	
Child-Resistant Packaging Yes* No Cartification must be submitted Contact of Net Content Label Contact Point (Complete Name Kevin Kutcel	Unit Packaging Yes No If "Yes" Unit Packaging wgt. Is Information Container Is Affixed to Product te items directly below to tements i have made on any knowingly false or r	No. per container If "Ye container Packs 4. Size(s) Retail Conts Lithograph Paper glued Stencifed Sec for identification of individual Consults Certification of this form and all attace	Soluble Peckeging Vee No No. p ge wgt contact siner O ction - IV ridual to be contact tant	ther	cation of Lab On Lab On Lab	Metal Plastic Glass Paper Other (State Directic all aling accommendations of the Metal Plastic State o	specify) ons spanying product spplication.)	ree Code)
Child-Resistant Packaging Yes* No Cartification must be submitted Label Label Menner in Which Label in Contact Point (Completed) Contact Point (Completed) Label	Unit Packaging Yes No If "Yes" Unit Packaging wgt. Is Information Container Is Affixed to Product te items directly below to tements i have made on any knowingly false or r	No. per container If "Ye container Packs 4. Size(s) Retail Conts Lithograph Paper glued Stencifed Sec for identification of individual Consults Certification of this form and all attace	No. pege wgt contact tant threents thereto are may be punishable by	ther	cation of Lab On Lab On Lab	Metal Plastic Glass Paper Other (State Directic all aling accommendations of the Metal Plastic State o	e application.) e No. (Includes) -7305	ree Code)

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



EPA United States Environmental Protection Office of Pesticide Programs

Kevin R. Kutcel. Agent for PureShield Inc. 5807 Churchill Way, Medina, OH 44256

MAY 17 2012

Subject:

Product Name:

Bio-Protect AM500

EPA Reg. No.: Notification Date: EPA Receipt Date:

April 12, 2012 April 18, 2012

87583-2

Decisions #: 463921

Dear Mr. Kutcel.

This letter acknowledges receipt of your multiple-notifications submitted under the provision of the Federal Insecticide, Fungicide and Rodenticide Act. (FIFRA) section 3(c)9 and PR Notice 98-10.

Proposed Notification:

Additional of the indoor, nonfood site of "wood"

General Comments

Based on a review of the submitted materials, your application for pesticide notification for the product, "Bio-Protect AM500", is un-acceptable. The addition of "wood" to the product's label could be interpreted as a wood preservative use. Therefore, you must re-submit this package as a label amendment. If the package is re-submitted as label amendment, the Agency may consider "wood", as a new use. A copy of your notification has been placed in our records for future reference.

Should you have any questions or comments concerning this letter, please contact Velma Noble PM team 31 at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Product Manager, Team 31

Regulatory Management Branch

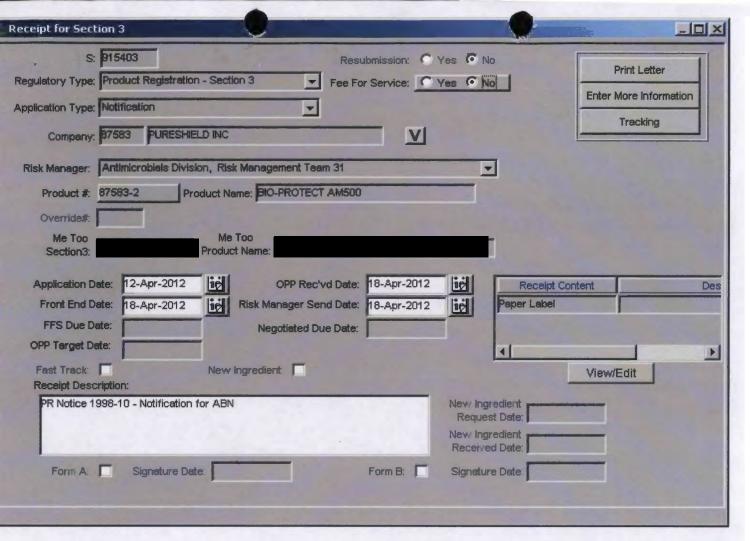
Antimicrobials Division (7510P)

RISK ASSIGNMENT FORM Antimicrobial Division/Regulatory Management Branch I

Submission No. Fee for Service Action Code: 332	Completed by Product Manager								A	
Submission No. Fee for Service Action Code: 332	<u>31</u>	TEAM_3	RMB 1	PRODUCT REVIEWER: Cletis						
FQPA Action Code: Non-FQPA Action Code: PRIA FEE AMOUNT: DAY MONTH YEAR APPLICATION DATE 12 04 2012 EPA PIN DATE 18 04 2012 DATE PM RECEIVED FROM FRONT END DATE SENT TO SCIENCE DATE RECEIVED FROM SCIENCE	No						ication	of Action: Notifi	Description	
DAY MONTH YEAR APPLICATION DATE 12 04 2012 EPA PIN DATE DATE PM RECEIVED FROM FRONT END DATE SENT TO SCIENCE DATE RECEIVED FROM SCIENCE	2	ion Code: 332	Service Act	Fee for		No.	Submission	463921	Decision No	
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DATE DUE TO PM 10 05								EIVED FROM		
					05		10	то РМ	DATE DUE	
Type of PSB Product Chemistry PSB Acute PSB Efficacy PSB Environmental Fate RASSB Environmental Fate RASSB Ecological Effects Toxicology	RASSB Exposure/ Residue	Chronic	cological	ental	Environm		Committee of the commit	Product		



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В		For Arctic S	lope Contract Or	nly	
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С	Reviewer Comments:	The thirt was de section of the			
DA	TE FEE PAID:	RESPON	ISE CODE:	RESPONSE D	ATE:





5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

April 12, 2012

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the addition of the indoor, nonfood site of "wood" added to the label as indicated by yellow highlight on the attached labels. Per PR Notice 98-10, the addition of this site does not require additional data; is within the use pattern category for this product; exposure is not increased; the US EPA does not prohibit the addition of nonfood sites for this product; within the scope of the label for the technical product; and the dosage, concentration, frequency and method of application are not changed.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,

Agent for PureShield Inc.

I certify that the statements I have made on this form and all attachments thereto are true, eccurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or

3. Title

5. Date

Consultant

4/12/2012

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

hund

both under applicable law.

2. Signeture

4. Typed Name

Kevin Kutcel

White - EPA File Copy (original)

Yellow - Applicant Copy

(Stamped)



MICROBIOSTATIC AGENT · A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysllyl) propyldimethyloctadecyl ammonium chloride 5%	,
Other Ingredients: 95%	,
TOTAL	
INGREDIENTS:	6

WARNING

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No. _____

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and Industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam, finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor

paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel
- Wood

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause stuining and discoloration, fungi (mold and mildew) and algae as a static agent.

AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges

- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties).
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polynropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces

- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel
- Wood

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger frems (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary,

	Pest controlled	Dilution Rate	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	Pest controlled	Dilution Rate	reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. Method of Application

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dryiteated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and
			discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble,		
plastic, vinyl, wood		

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).

Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

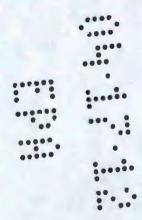
STORAGE AND DISPOSAL

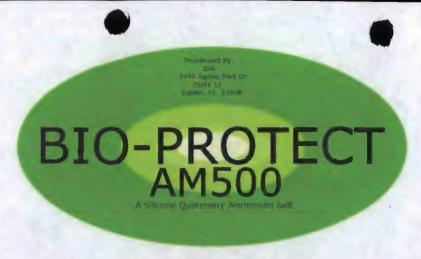
Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]





MICROBIOSTATIC AGENT • A Silicone Quaternary Ammonium Salt

t: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride 5%	Active Ingredient:
ts:	Other Ingredients:
	TOTAL
100%	INGREDIENTS:

KEEP OUT OF REACH OF CHILDREN WARNING

EPA Reg. No. 87583-2 EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No. ____

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center of doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and Industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural downson, not polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseyt, ***
 ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of
 paint film and coating film. Types of paints and coatings include: latex indoor/outdoor

paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel
- Wood

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry

treated areas and articles such as clothing before use. Remove children and pets from treated area
until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; loz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges

- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces

- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel
- Wood

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and earpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary,

	Pest controlled	Dilution Rate	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polypropylene, rayon, silk, spandex, vinyl, and wool.	Pest controlled	Dilution Rate	return. SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. Method of Application
applied to fabrics made of acetates, acrylics, cotton,			reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	spray: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4.4.6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staning and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
			DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a choines dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Roofing materials	Odor-causing	8 oz / gallon	SPRAY: Dilute AM500 in water; mix

(such as shingles,	bacteria,	2 oz / quart	well. Make sure the roof or wall is clean
roofing granules, wood shakes, felt, stone, synthetic	bacteria which cause staining and	1 oz / pint	prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the
overcoats) Exterior walls (such as stone,	discoloration, fungi (mold and mildew),		surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until
concrete, brick)	and algae		dry. AM500 treats approximately 200 square feet of roofing or wall per diluted
			gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria,
			mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sufe the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain, synthetic marble, plastic, vinyl, wood			
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MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odgr-causing bacteria

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria

bacteria which cause staining and discoloration, fungi (mold and mildew), and atgae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).

Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

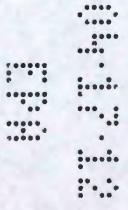
STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]





MICROBIOSTATIC AGENT · A Silicone Quaternary Ammonium Salt

tive Ingredient: 3-(trimethoxysilyl) propyldlmethyloctadecyl ammonium chloride 5%
ther Ingredients:
DTAL
GREDIENTS: 100%

WARNING

EPA Reg. No. 87583-2

EPA EST. 74348-FL-001

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal. Lot No.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor. Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

Commercial and industrial uses: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry • . . . • treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient....

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down; nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor

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paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mons
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinvl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel
- Wood

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges

- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces

- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel
- Wood

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Fost staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary,

	Pest controlled	Dilution Rate	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	Pest controlled	Dilution Rate	reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. Method of Application

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	spray: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. ••• Test staining and color-fastness of fabrice and carpets by treating and drying a small.	apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
bacteria, bacteria which cause staining and discoloration, fing (mold and mildew), and algae bacteria which cause staining and discoloration, fing (mold and mildew), and algae bacteria which cause staining and discoloration, fing (mold and mildew), and algae bacteria which cause staining and discoloration, fing (mold and mildew), and algae bacteria which cause staining and discoloration due to bacteria, mold stains, and mildew stains return. bacteria which cause staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. bacteria which cause staining and color-fastness of fabric by treating and drying a small concealed area prior to application. Do not recompletely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping states can be hang-dried at room temperatures or a staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping states can be hang-dried at room temperatures or a staining and color-fastness of fabric and carpets by creating and drying a small concealed area prior to application. Do not reuse solution after dipping states can be hang-dried at room temperatures or a staining and color-fastness of fabric and carpets by creating and drying a small concealed area prior to application. Do not reuse solution after dipping states can be hang-dried at room temperatures or a staining and color-fastness of fabric by treating and drying a small concealed area prior to application. Do not reuse solution after dipping states can be hang-dried at room temperature or a staining and color-fastness of fabric by treating and drying a small c		101.000	100 000 000 000	Method of Application
Pest Dilution Method of Application	-	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew),	8 oz / gallon 2 oz / quart	well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabricand carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and
The state of the s		Pest	Dilution	and mildew stains return.
Roofing materials Odor-causing 8 oz / gallon SPRAY: Dilute AM500 in water; mix		controlled	Rate	

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	controlled Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	Rate 8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mixwell. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain,	
synthetic marble, plastic, vinyl,	
wood	

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria. Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing tracteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria,

fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).

Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]



Kevin Kutcel Consultant for PureShield, Inc. KRK Consulting LLC 5807 Churchill Way Medina, OH 44256

FEB 2012

SUBJECT:

Bio-Protect AM500

EPA Registration Number: 87583-2 Application Date: October 31, 2011 Receipt Date: November 3, 2011

Dear Mr. Kutcel:

This letter acknowledges receipt of the amendment identified above submitted under the provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended.

Submission of two Alternate Formulations

The Alternate Confidential Statements of Formula (CSF) dated 12/28/11 have been reviewed. This amendment is unacceptable based on the following deficiencies.

- 1) This product was registered as á 100% repack. A decision to formulate this product instead of repacking requires the submission of product chemistry data, Group A and B. Your proposed CSFs dated 12/28/11 indicate that you intend to formulate.
- 2) . Product chemistry data on this formulation must be submitted to support this change.
- 3) This type of change is a PRIA action, A570, 120 day time frame with the associated fee of \$3473.00.

CONCURRENCES								
SYMBOL	7510P							
SURNAME	5 Lus						400000000000000000000000000000000000000	****************
DATE	211/2						***********	************
CERCIAL ERECOPY								

128

In addition, several corrections are required on the CSFs. Make these corrections prior to resubmitting for review.

The source of active ingredient concentration must be corrected to agree with the label of that product (71.2%). Then recalculate the nominal concentration such that you are adding the appropriate amount of active ingredient to meet the label claim of 5%. Also indicate the corrected upper and lower certified limits for the AI.

General Comments

Please reply to the Agency by submitting revised CSFs and Product Chemistry data for review. In addition, submit a Certification with Respect to Citation of Data form along with Generic and Product Specific Data Compensation. Should you have any questions concerning this letter, please contact Tracy Lantz at (703) 308-6415.

Sincerely,

Velma

Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7510P)

7510P:T.Lantz:2/1/2012:87583-2 unacc CSF

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



EPA Linked States Office of Pesticide Programs

Antimicrobials Division (AD)

February 1, 2012

DP BARCODE:

396154

MRID:

N/A

SUBJECT:

Bio-Protect AM500

REG. NO .:

87583-2

DOCUMENT TYPE:

Product Chemistry Review

Manufacturing-use []

OR

End-use Product [X]

INGREDIENTS:

PC Code(s)

CAS Number

Active Ingredient(s):

TEST LAB:

N/A

SUBMITTER:

PureShield Inc.

GUIDELINE:

N/A

ORGANIZATION:

AD\PSB\CTT

REVIEWER:

Lynette T. Umez-Eronini

APPROVED BY:

Karen P. Hicks

APPROVED DATE:

January 31, 2011

COMMENT:

This product is for non-food use.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



EPA United States Protection Office of Pesticide Programs

Antimicrobials Division (AD)

February 1, 2012

MEMORANDUM

Product Chemistry Review for EPA Reg. 87583-2 SUBJECT:

Product Name: BioProtect AM500

DP Barcode: 396154

CODE: A362

DATE DUE: February 1, 2012

Lynette T. Umez-Eronini, Chemist Lynette T. Umez-Ewnung
Chemistry and Toxicology Team FROM:

Product Science Branch

Antimicrobials Division (7510P)

Karen Hicks, Team Leader THRU:

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

Velma Noble PM#31/Tracy Lantz TO:

> Regulatory Management Branch I Antimicrobials Division (7510P)

PureShield Inc. Applicant:

PRODUCT FORMULATION FROM LABEL:

% by wt. Active Ingredient:

Other Ingredient(s):

Total:

100.0

BACKGROUND:

The consultant, KRK Consulting LLC, on behalf of the registrant, PureShield Inc., has submitted a proposed amendment to add alternate #s (1 & 2) formulations for Bio-Protect AM500 (Reg. No. 87583-2). The basic CSF (Reg. No. 87583-2), dated May 10, 2010 is a 100% repack of

Bio-Protect AM500 is an end-use product. This product is produced by non-integrated formulation system. The product is a microbiostatic agent that is used in paints and coatings as an in-can preservative for protection of paint film and coating film. This product is for non-food use.

The original data package included:

- 1. A letter from the applicant's representative to EPA, dated October 31, 2011.
- 2. A copy of the basic formulation (87583-2), dated May 10, 2010.
- 3. Two copies of two alternate formulations (87583-2), one dated October 13, 2011 and the other November 13, 2011. The said alternate formulations lack an identifier.
- 4. EPA Form 8570-1 (Amendment), dated October 31, 2011.
- 5. EPA Form 8570-34 (Certification with Respect to Citation of Data), dated May 13, 2011.
- EPA Form 8570-35 (Data Matrix), dated May 13, 2011.

A revised data package included a copy of Alternate #s (1 & 2) formulations, dated December 28, 2011 and a proposed product label, sent via e-mail on December 28, 2011.

FINDINGS:

- 1. The registrant suggested that the purity of the active ingredient from the registered source (87583-1) is 71.2% as "...trimethoxy..." However the registered source consists 72% "...trimethoxy..."
- 2. The nominal concentration of the active ingredient on alternate #1 and #2 Formulations is inconsistent with their product label and must be 5% as per label.
- 3. The alternate #2 formulation differs from the basic formulation: therefore, alternate #2 formulation is a new product.
- 4. The registrant is using "commodity" terminology in column 10.

87583-2_D396154_BioProtect AM500

CONCLUSION:

Product Science Branch of Antimicrobials Division finds the submission for 87583-2 to add alternate formulations #1 and #2, dated December 28, 2011 to be unacceptable. Alternate #1 formulation must be updated (see Findings and Recommendations). Alternate #2 formulation represents a new product.

RECOMMENDATIONS:

- 1. The registrant must correct the percent purity of the active source (87583-1) to read 72% of methoxy from note #1 of the CSF.
- 2. On alternate #1 formulation, the registrant must correct the percent purity of the active ingredient to 5% as per label.
- 3. The registrant must set the nominal concentration of the active ingredient to be 5% according the basic formulation. The basic formulation is a repack that represents 5% as per label.
- 4. On column 11, of the Formulations, the registrant must delete the term and insert the supplier name and address.

DATA PACKAGE BEAN SHEET

Date: 16-Nov-2011
Page 1 of 1

Registration Information * * *



Decision #: 457615 DP #: (396154)

NON PRIA

HONFRI

Parent DP #:

Submission #: 906384

E-Sub #:

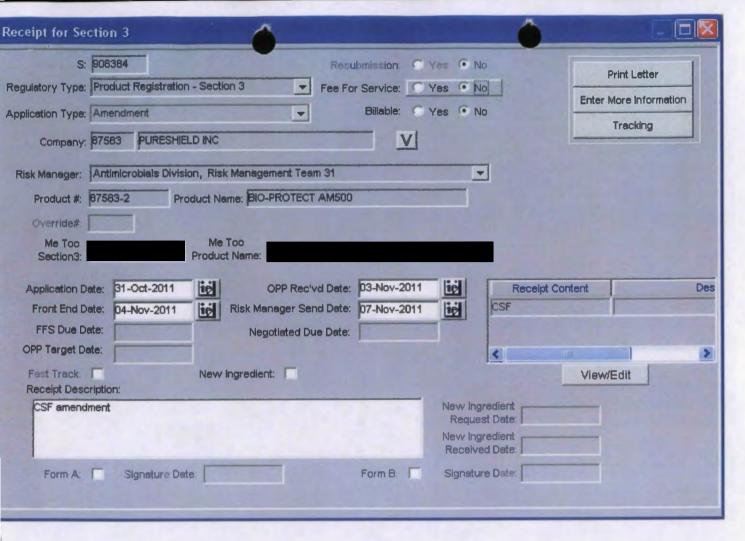
Registration: 87583-2 - BIO-PROTECT AM500 Company: 87583 - PURESHIELD INC Risk Manager: RM 31 - Velma Noble - (703) 308-6233 Room# PY1 S-8855 Risk Manager Reviewer: Alison Tracy 31056 Calculated Due Date: 01-Feb-2012 Edited Due Date: Sent Date: Type of Registration: Product Registration - Section 3 Action Desc: (362) FORMULA CHANGE; TECHNICAL; Ingredients: 107401, 1-Octadecanaminium, N,N-dimethyl-N-(3-(trimethoxysilyl)propyl)-, chloride(5%) * * * Data Package Information * * * Expedite: Yes No Date Sent: 16-Nov-2011 Due Back: DP Ingredient: 107401, 1-Octadecanaminium, N,N-dimethyl-N-(3-(trimethoxysilyl)propyl)-, chloride DP Title: CSF Included: Yes No Label Included: Yes No Parent DP #: **Assigned To Date Out** Organization: AD / PSB Last Possible Science Due Date: 18-Dec-2011 Science Due Date: 12/30/11 Sub Data Package Due Date: 1/13/12 Team Name: CTT Reviewer Name: Contractor Name: Studies Sent for Review * * * No Studies * Additional Data Package for this Decision * * * No Additional Data Packages

* * * Data Package Instructions * * *

Registrant has submitted CSF to be reviewed.

label & packet

11/16/11





UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

November 7, 2011

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

KEVIN KUTCEL KRK CONSULTING LLC PURESHIELD INC 5807 CHURCHILL WAY MEDINA, OH 44256-

PRODUCT NAME: BIO-PROTECT AM500 COMPANY NAME: PURESHIELD INC OPP IDENTIFICATION NUMBER: EPA FILE SYMBOL: 87583-2 EPA RECEIPT DATE: 11/03/11

SUBJECT: RECEIPT OF AMENDMENT

DEAR REGISTRANT:

The Office of Pesticide Programs has received your application for an amendment and it has passed an administrative screen for completeness.

During the initial screen we determined that the application appears to qualify for fast track review. The package will now be forwarded to the Product Manager for review to determine its acceptability for fast track status.

If you have any questions, please contact Antimicrobials Division, Risk Management Team 31, at (703) 308-6233.

Sincerely,

Front End Processing Staff
Information Services Branch
Information Technology & Resources Management Division

Fee for Service

{906384;~

This package includes the following	for Division			
New RegistrationAmendmentStudies?Fee Waiver?	O AD O BPPD O RD			
□ volpay % Reduction:	Risk Mgr. 31			
Receipt No. S-EPA File Symbol/Reg. No. Pin-Punch Date: This item is NOT subject to	87583-2 11/3/2011			
Action Code: Requested: Granted: Amount Due: \$	Parent/Child Decisions:			
Inert Cleared for Intended Use Reviewer: Team Bemarks:	Uncleared Inert in Product Date: 11/04/2011			



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of informatic and 0.25 hours per response for reregistration and special review activities, including time for a comments regarding burden estimate or any other aspect of this collection of information, including time for the comments of the collection of information, including time for the comments of the collection of the collection of information, including time for the comments of the collection of the collecti	reading the instruction uding suggestions for	ns and completing the necessary forms. Send reducing the burden to: Director, Collection				
Certification with Respect to C	Citation of Data					
Applicant's/Registrant's Name, Address, and Telephone Number PureShield Inc., 1445 Jupiter Park, Suite 1, Jupiter, FL 33458 561-747-5758		EPA Registration Number/File Symbol 87583-2				
Active Ingredient(s) and/or representative test compound(s) 3-(Trimethoxysilyl)propyl dimethyl octadecyl ammonium chloride		Date 10/31/11				
General Use Pattem(s) (list all those claimed for this product using 40 CFR Part 158 antimicrobial)	Product Name Bio-Protect AM500				
NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statement (EPA Form 8570-27).						
I am responding to a Data-Call-In Notice, and have included with this form a be used for this purpose).	list of companies se	ent offers of compensation (the Data Matrix form should				
SECTION I: METHOD OF DATA SUPP	ORT (Check one m	nethod only)				
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose). I am using the selective method of support (or cite-all option under the selective method), and have included with this form completed list of data requirements (the Data Matrix form mused).						
SECTION II: GENERAL	OFFER TO PAY					
[Required if using the cite-all method or when using the cite-all option under the selection of the selectio						
SECTION III: CERT	IFICATION					
I certify that this application for registration, this form for reregistration, or the application for registration, the form for reregistration, or the Data-Call-In response. In indicated in Section I, this application is supported by all data in the Agency's files that substantially similar product, or one or more of the ingredients in this product; and (2) requirements in effect on the date of approval of this application if the application sour uses. I certify that for each exclusive use study cited in support of this registration the written permission of the original data submitter to cite that study.	addition, if the cite- t (1) concern the pro is a type of data tha ght the initial registra	all option or cite-all option under the selective method is operties or effects of this product or an identical or it would be required to be submitted under the data ation of a product of identical or similar composition and				
I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (l) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (ii) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study. I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their 10/10/10/10/10/10/10/10/10/10/10/10/10/1						
Signature Date 10/31/11 Typed or Printed Name and Title Kevin R. Kutcel - Consultant						

EPA Form 8570-34 (12-2003) Electronic and Paper versions available. Submit only Paper version.

Form Approved OMB No. 2070-0060



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

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	DATA	MATRIX			
Date 10/31/11 Applicant's/Registrant's Name & Address PureShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458			EPA Reg No./File Symbol 87583-2	Page 1 of 1	
			Product Bio-Protect AM500		
Ingredient 3-(trimethyloxysilyl) pr	opyldimethyloctadecyl ammonium chloride				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	BioShield Technologies, Inc. (1997) Product Identity and	44279401	Inhold LLC	per	cite-all
	Composition of AM 500 I and AM 500. 14 p.				
	BioShield Technologies, Inc. (1997) Description of	44279402	Inhold LLC	per	cite-all
	Beginning Materials and the Manufacturing Process of				
	AM 500 I and AM 500. Unpublished study. 24 p.				
	Berkner, J. (1997) Discussion of Formation of Impurities	44279403	Inhold LLC	per	cite-ali
	in AM 500 I and AM 500. 4 p.				
	Wells, D. (1997) AM500-Conducting Product Chemistry	44279404	Inhold LLC	per	cite-all
	Studies for an End-Use Product. 44 p. (OPPTS 830.6302,				
	830.6303, 830.6304, 830.7300,830.7100, & 830.7000)				
	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary	44351901	Inhold LLC	per	cite-all
	Analysis, Certification of Ingredient Limits, and Analytical		and the second		
	Method for Enforcement of Limits for BioShield AM 500			Transit Land	
	and BioShield AM 500 I. 13 p.				
Signature	Murth		Name and Title Kevin Kutçel - Consultant		Date 10/31/11

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Agency Internal Use Copy

Form Approved OMB No. 2070-0060



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address.

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		DATA MATRIX			
Date 10/31/11 Applicant's/Registrant's Name & Address PureShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458			EPA Reg No./File Symbol 87583-2		Page 1 of 1
			Product Bio-Protect AM500		
Ingredient 3-(trimethyloxysityl) pro	opyldimethyloctadecyl ammonium chloride				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
			Inhold LLC	рег	
			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	
			Inhold LLC	per	
Signature	K 7 King	1	Name and Title Kevin Kutcel - Consultant		Date 10/31/11

EPA Form 8570-35 (9-97) Electronic and Paper versions available. Submit only Paper version.

Public File Copy

× No × No * Certification must be submitted * Unit Packaging	No. per wgt. container	X No If "Yes" Package wgt	No. per container	X Plan Gla Pap Oth	88	
Lebel Container	4. Size(s) Reta 2, 4, 8, 16, 1, 5, 55,	il Container ,20,12,360 Z 150,300 gal	X	ation of Label Dir On Label On Labeling as	ections ecompanying product	
5. Manner in Which Label is Affixed to Produc	Lithogr Paper Stencil	glued ed	Other			
		Section - IV				
1. Contact Point (Complete Items directly be	low for identification	n of individual to be d	ontacted, if neces	ssary, to process	this application.)	
lame Kevin Kutcel		Consultant			chone No. (Include Area Code) -263-7305	
I certify that the statements I have made is acknowledge that any knowlingly felse both under applicable law.		all attachments there			6. Dete Application Received (S*amped)	
2. Signeture	_	3. Title Consultant				
I. Typed Name Kevin Kutcel	5. Date Oct 31, 2011					

- V...



5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

October 31, 2011

Document Processing Desk (AMEND) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: CSF Formulation Amendment (EPA No. 87583-2)

Please accept the attached two copies of two alternate Confidential Statement of Formula (EPA Form 8570-4) for Reg. No. 87583-2 "Bio-Protect AM500" along with one copy of the current Confidential State of Formula on file with the EPA for this registration.

Please note that both of these proposed alternate CSF's were previously filed with the US EPA on May 12, 2011 and were reviewed by Lynette T. Umez-Eronini on a report issued on August 2, 2011 (DP Barcode 390059). KRK Consulting LLC then contacted and worked with Lynette T. Umez-Eronini regarding the deficiencies cited in her report and the attached CSF's were met with her approval. Ms. Umez-Eronini was then instructed by Ms. Velma Noble that the revised CSF's must be re-submitted to the US EPA for approval. Since these CSF's have already been examined and approved by Ms. Lynette T. Umez-Eronini, KRK Consulting LLC respectively requests that these revised CSF's be given to her since she has prior knowledge of them.

CVIET CO	
Please note that the original CSF is a 100% repackage of	
These alternate CSF's are identical to the original CSF	and alternate CSF used in the
manufacture of the product,	,
	,
	, attached is
a letter of authorization from Inhold LLC granting permission	on to cite their relevant product

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

chemistry and the corresponding data matrices citing the specific product chemistry studies.

Kevin R. Kutcel,

Best Regards,

Agent for PureShield Inc.

Kevin Kutcel Agent for PureShield, Inc. KRK Consulting, LLC 5807 Churchill Way Medina, OH 44256

AUG 12 2011

SUBJECT:

Bio-Protect AM500

EPA Registration Number: 87583-2 Application Date: May 12, 2011 Receipt Date: May 17, 2011

Dear Mr. Kutcel:

This letter acknowledges receipt of the notification identified above submitted under provisions of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) as amended and PR Notice 98-10.

Proposed Alternate CSF for Reg. No 87583-2 "BioProtect AM500".

The proposed amendment to accept the alternate CSF, dated March 1, 2011 was reviewed and found to require correction: therefore, it is unacceptable. For details see attached associated chemistry review.

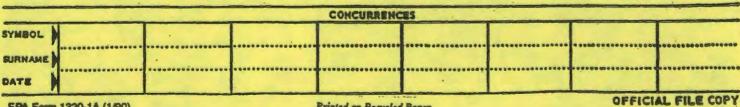
General Comments

Should you have any questions concerning this letter, please contact Emilia Oiguenblik at (703) 347-0109 or Velma Noble at (703) 308-6233.

Sincerely,

Product Manager (31)

Regulatory Management Branch I Antimicrobials Division (7510P)



EPA Form 1320-1A (1/90)

Printed on Recycled Paper

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



EPA United States Environmental Protection Office of Pesticide Programs

Lynette J. Umz Eronini

Bfor KPH

Antimicrobials Division (AD)

August 2, 2011

MEMORANDUM

SUBJECT: Product Chemistry Review for EPA Reg. 87583-2

Product Name: Bio-Protect AM500

DP Barcode: 390059

CODE: (362) Formula Change Technical

DATE DUE: July 22, 2011

FROM: Lynette T. Umez-Eronini, Chemist

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

Karen Hicks, Team Leader THRU:

Chemistry and Toxicology Team

Product Science Branch

Antimicrobials Division (7510P)

TO: Velma Noble PM#31/Emilia Oiguenblik

> Regulatory Management Branch I Antimicrobials Division (7510P)

PureShield Inc. Applicant:

PRODUCT FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
3-(Trimethoxysilyl) propyldimethyloctadecyl ammonium	
chloride	5.0
Other Ingredient(s):	95.0
Total:	100.0

BACKGROUND:

Consultant, Kelvin Kutcel on behalf of PureShield Inc., has submitted an amendment for a proposed alternate Confidential Statement of Formulation (CSF) for Bio-Protect AM500. The original (basic) CSF is a 100% repack of

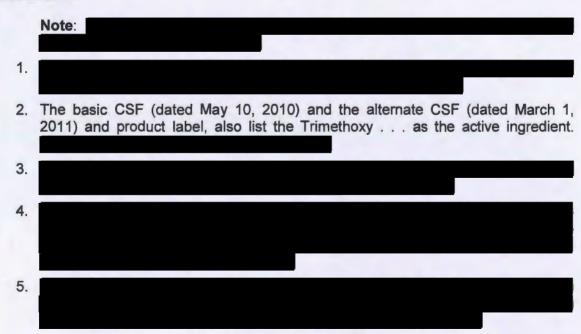
attached is a

letter of authorization from Inhold LLC granting permission to cite relevant product chemistry and the corresponding data matrices citing the specific product chemistry studies. Bio-Protect AM500 is a non-integrated end-use product. The product is a microbiostatic agent that is used in paints and coatings as an in can preservative for protection of paint film and coating film.

The original data package included:

- 1. A letter from the applicant's representative to EPA, dated May 12, 2010 and pin-punched May 17, 2011.
- 2. A copy of a basic Confidential Statement of Formula (CSF), dated May 10, 2010.
- 3. Two copies of an alternate CSF, dated March 1, 2011.
- 4. EPA Form 8570-1 (Amendment), dated May 12, 2011.
- 5. EPA Form 8570-34 (Certification with Respect to Citation of Data), dated May 13, 2011.
- 6. EPA Form 8570-35 (Data Matrix), dated May 13, 2011;

FINDINGS:



87583-2_D390059_Bio-Protect AM500



CONCLUSION:

The proposed amendment to accept the alternate CSF, dated March 1, 2011 was reviewed and found to require correction: therefore, it is unacceptable.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



EPA United States Office of Pesticide Programs

Antimicrobials Division (AD)

August 2, 2011

DP BARCODE:

390059

MRID:

N/A

SUBJECT:

Bio-Protect AM500

REG. NO .:

87583-2

DOCUMENT TYPE: Product Chemistry Review

Manufacturing-use []

OR

End-use Product [X]

INGREDIENTS:

PC Code(s)

CAS Number

Active Ingredient(s):

107401

27668-52-6

1-Octadecanaminium, N,N-dimethyl-N-(3-

(TrimethoxysilyI)propyI)-, chloride (5%)

TEST LAB:

N/A

SUBMITTER:

PureShield Inc.

GUIDELINE:

Product Chemistry

ORGANIZATION:

AD\PSB\CTT

REVIEWER:

Lynette T. Umez-Eronini

APPROVED BY:

Karen P. Hicks

APPROVED DATE: August 2, 2011

COMMENT:

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460



EPA Endressed Protection Office of Pesticide Programs

Kevin R. Kutcel, KRK Consulting LLC, 5807 Churchill Way' Medina, OH 44256

JUL 22 2011

Subject:

PureShield Inc./ Bio-Protect AM 500

EPA Registration No.: 87583-2 Notification Date: 6/17/11 EPA Receipt Date: 6/22/11 ·Submission #: 898338

Dear Mr. Kutcel,

This letter acknowledges receipt of your notification submitted under the provision of FIFRA section 3(c)9 and PR Notice 98-10.

Proposed notification request for alternative brand name:

Bio-Protect 500

General Comments

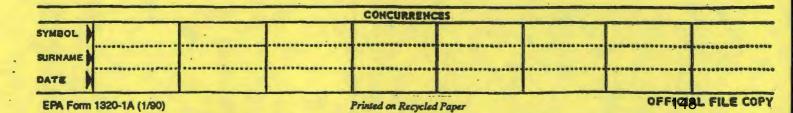
Based on a review of the submitted material, your notification of a request for alternative brand names for your product, "PureShield Inc./ Bio-Protect AM 500", is acceptable.

Should you have any questions or comments concerning this letter, please contact Velma Noble at (703) 308-6233 or Jamil Mixon at (703) 308-8032.

Sincerely

Product Manager -31

Regulatory Management Branch Antimicrobials Division (7510P)

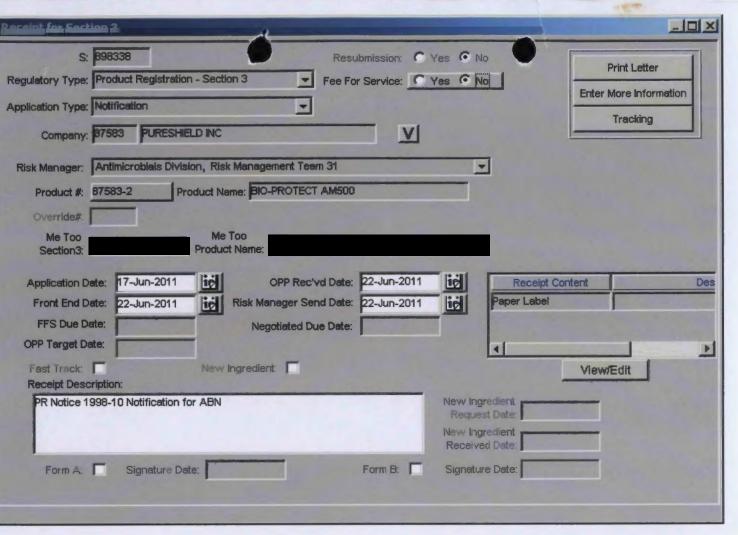


Material Sent for Data Extraction

Reg # 87583-2

Description:
☐ Material(s) Sent to Data Extraction Contractors:
New Stamped Label Dated
Notification Dated
New CSF(s) Dated
☐ Other:
Decision #:
Other Action/Comments:
Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).
Reviewer:
Phone: (203) 308 8032 Division: (A)
Date: 7/21/11 Created February 3, 2011

nort



Bio-Protect 500

MICROBIOSTATIC AGENT *

A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium ch	loride5.0%
Other Ingredients:	95.0%
TOTAL INGREDIENTS:	100 0%

WARNING

EPA Reg. No. 87583-2

EPA EST. xxxxx-xx-xxxx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC, 1445 Jupiter Park Drive # 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.

Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

<u>Commercial and industrial uses</u>: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge

Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of Pathene can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of Pathene.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding Pathene to solvent and stirring. Pathene can also be diluted by adding 0.2 to 2 fluid ounces of Pathene per cup (3.2 to 32 fluid ounces of Pathene per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to prepare or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foarn finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Pathene when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces Pathene per cubic feet of concrete. Add to water before addition of concrete. Addition of Pathene reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

Pathene when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of Pathene per 100 pounds of paint or coating (or 1 pound Pathene per 20 pounds paint/coating). The addition of the antimicrobial agent (Pathene) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. Pathene inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in Pathene is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. Pathene can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Pathene can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g. schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of Pathene per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Pathene treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more Pathene may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of Pathene per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. Pathene treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more Pathene may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Pathene solution to completely submerge item. Dilute 8 ounces of Pathene per gallon of water (2oz. per quart; loz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in Pathene is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

Pathene can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

•••••

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains

- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Pathene can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyrene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery

- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in Pathene is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. Pathene can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, Odor-causing 8 oz / gallon 2 oz / quart 1 oz / pint basin or tub for dipping/soaking the item you are treating. Use enough Pathene solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in	Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, Odor-causing bacteria, bacteria, bacteria 1 oz / pint 1 oz / pint basin or tub for dipping/soaking the item you are treating. Use enough Pathene solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid	Bedsheets, blankets, bedspreads, blankets, bedspreads, blankets bedspreads, blankets bedspreads, blankets bedspreads, blankets bedspreads, blankets bedspreads blankets bedspreads blankets blan	controlled Rate
shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution	rugs, toweling, toilet tank covers, shower curtains, shoe insoles, mildew) bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by	(washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling,staining and discoloration, and fungisolution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in	blankets, bacteria, 2 oz / quart mix well. Use appropriate sized wash bacteria 1 oz / pint basin or tub for dipping/soaking the item
sweatshirts coats	(jackets, sweaters, prior to application. Do not reuse solution	shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution	(washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters,
shower curtains, the removal of excess liquid. Test steining	rugs, toweling, mildew) bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in	rugs, toweling, mildew) bedspreads, curtains, draperies), place in	(washable only), underwear, socks, intimate apparel,staining and discoloration, and fungisolution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid

	controlled	Rate	
	Pest	Dilution	Method of Application
Aquariums			
cleaner filters			
• Vacuum			influew stains, and argae stains return.
systems			discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
air handling	and algae		three months or when odor, staining and
Recirculating	and mildew),		dry. If necessary, reapply Pathene every
Automobiles	fungi (mold		covered. Apply and then let stand until
systems	discoloration,		making sure the surface is completely
Air purification	staining and		entire surface area 4"-6" from the surface,
conditioners	which cause		sprayer or pressure sprayer, spray the
• Furnaces, air	bacteria	1 oz / pint	from the unit. Using a trigger pump
filter material for:	bacteria,	2 oz / quart	well. When treating filters, remove filter
Air filters and air	Odor-causing	8 oz / gallon	SPRAY: Dilute Pathene in water; mix
	controlled	Rate	A A
	Pest	Dilution	Method of Application
			return.
			to bacteria, mold stains, and mildew stains
			reapply Pathene every three months or when odor, staining and discoloration due
			area prior to application. If necessary,
			by treating and drying a small concealed
			Test staining and color-fastness of fabric
			occurs, wipe with moist cloth or sponge.
			dry with cloth or sponge. If spotting
and wool.			until dry or let stand 3 minutes and wipe
spandex, vinyl,			surface is completely covered. Let stand
rayon, silk,			6" from the surface, making sure the
polypropylene,			sprayer, spray the entire surface area 4"-
polyolefins,			Using a trigger pump sprayer or pressure
polyethylene,			well. Clean surface prior to application.
orlon, polyester,			SPRAY: Dilute Pathene in water; mix



Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute Pathene in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted Pathene solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. Pathene treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more Pathene may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
Mottmood and and	Controlled	Rate	SDD A.V. Dilute Bethans in vectors with
Mattress pad and mattress ticking	Odor-causing bacteria,	8 oz / gallon 2 oz / quart	SPRAY: Dilute Pathene in water; mix well. Clean surfaces prior to application.
and upholstery	bacteria	1 oz / quart	Using a trigger pump sprayer or pressure
composed of	which cause	1 02 / pint	sprayer, spray the entire surface area 42.
acetates, acrylics,	staining and		6" from the surface, making sure the
cotton, fiberglass,	discoloration,		surface is completely covered. Apply and
nylon, polyester,	and fungi		then let stand until dry or het stand 3
polyethylene,	(mold and		minutes and wipe dry with cloth or
polyolefins,	mildew)		sponge. If spotting occurs, wipe with
polypropylene,			moist cloth or sponge. Test staining and
rayon, spandex,			color-fastness of fabric by treating and
vinyl, wool;			drying a small concealed area prior to ••••
fiberfill to be			application. When applying to mattress
used in			pads and ticking do not soak. Remove
upholstery,			children and pets from treated area until
sleeping bags,			completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	Rate 8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute Pathene in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute Pathene in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough Pathene solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Pry treated articles before use Substrates can be hang-dried at room temperature drat temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Roofing materials	Odor-causing	8 oz / gallon	SPRAY: Dilute Pathene in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of Pathene, let stand until dry. Pathene treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
	controlled	Rate	
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute Pathene in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute Pathene in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply Pathene every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed			
porcelain,			
synthetic marble,			
plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR Pathene is an antimicrobial agent effective against odor-causing bacteria.

Pathene is an antimicrobial agent effective against bacteria which cause staining and discoloration.

Pathene is an antimicrobial agent effective against fungi (mold and mildew).

Pathene is an antimicrobial agent effective against algae.

Pathene, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

Pathene, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

Pathene, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria

bacteria which cause staining and discoloration, fungi (mold and mildew), and algae

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria. Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew).

Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]





5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

June 17, 2011

US EPA (NOTIF)
Office of Pesticide Programs
Room S-4900, One Potomac Yard
2777 South Crystal Drive
Arlington, VA 22202-4501

Subject: PR Notice 1998-10 Notification for ABN (EPA No. 87583-2)

Please accept the attached 3 copies of the revised label for Reg. No. 87583-2 with the alternate brand name "Bio-Protect 500" per PR Notice 1998-10.

Attached is EPA Form 8570-1 regarding this notification as required in PR Notice 1998-10. This notification is consistent with the guidance in PR Notice 1998-10 and the requirements of EPA's regulations at 40 CFR 156.46, 156.140, 156.144, 156,146 and 156.156 and no other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand this it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of PR Notice 98-10 and CFR 156.46, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards.

Kevin R. Kutcel,

Agent for PureShield Inc.

Please read instructions on I	reverse before complet	form.	Form /	Approved.	O No. 207	0-0060	Print Form
⊗EPA	Environmental	Protection Age		×	Registrati Amendm Other	on	OPP Identifier Number
		Application for	Pesticide - S	ection	1		
1. Company/Product Number PureShield Inc. / 87583-2			2. EPA Product Velma Noble	Manager			posed Classification
4. Company/Product (Name) PureShield Inc. / Bio-Product	Application Company/Product Number reshield Inc. / 87583-2 Company/Product (Name) JereShield Inc. / Bio-Protect AM500 Name and Address of Applicant (Include ZIP Code) JereShield Inc. / Bio-Protect AM500 Name and Address of Applicant (Include ZIP Code) JereShield Inc. / 445 Jupiter Park Drive, #11 Jupiter, FL 33458 Check if this is a new address Amendment - Explain below. Resubmission in response to Agency letter dated Notification - Explain below. Planation: Use additional page(s) if necessary. (For section I alease accept the alternate brand name for Reg. No. 87583-2 required compliance statement regarding this PR Notice. Idd-Resistant Packaging Yes No Certification must Label Contact Point (Complete items directly below for identification of me win Kutcel Location of Net Contents Information Label Contact Point (Complete items directly below for identification of me win Kutcel Certification Lebel Contact Point (Complete items directly below for identification of me win Kutcel Certification Lebel Certification of Net Contents Information I all acknowledge that any knowingly false or misleading statem both under applicable law. Signeture 3. Control Viscol Certification Certification of Net Contents and I have made on this form and all lacknowledge that any knowingly false or misleading statem both under applicable law. Signeture 3. Control Viscol Certification Content Point (Complete items directly below for identification of me win Kutcel Certification Certific		PM# 31	None Restricted			
PureShield Inc. 1445 Jupiter Park Drive, Jupiter, FL 33458	#11	de) ±	(b)(i), my produto:	oct is sin	nilar or identic	al in co	FIFRA Section 3(c)(3) mposition and labeling
		Sec	tion - II				
Resubmission in resp	onse to Agency letter	dated	Agency "Me To	rinted labe y letter da po" Applic Explain b	eation.	0	
Material This Product Will Child-Resistent Packaging Yes*	Unit Packaging		tion - III Soluble Packaging Yes	9		Metal	+
No Certification must be submitted	If "Yes"			per tainer		Plastic Glass Paper Other (S	pecify)
		4. Size(s) Retail Conts 2, 4, 8, 16, 20, 20	3602	5. L			ns panying product
6. Manner in Which Label is	Affixed to Product	Lithograph Paper glued Stenciled		Other			•
		Sec	Section - IV			•••••	• • • •
1. Contact Point /Complete	items directly below f	or identification of indi	vidual to be contac	ted, if ne	cessery, to proc	ess this	applicetion.)
Name Kevin Kutcel		Title Consult	tant			40-263	No. (Include Area Code)
I soknowledge that as	ny knowingly false or n						6. Date Application Received • (Stamped)
2. Signeture	Just	3. Title Consult	tant				
4. Typed Name Kevin Kutcel	Amendment - Explain below. Resubmission in response to Agency letter date. Notification - Explain below. Interpolation: Use edditional page(s) if necessary. (ease accept the alternate brand name for Reg. or required compliance statement regarding the required compliance statement regarding the little required li		011				



DATA PACKAGE BEAN SHEET

Date: 24-May-2011
Page 1 of 1

Decision #: 449558

DP #: (390059)

NON PRIA

Parent DP #:

Submission #: 896095

* * * Registration Information * * *

Registration:	87583-2 - BIO-PR	OTECT AM500			
Company:	87583 - PURESHIELD	INC			
Risk Manager:	RM 31 - Velma Noble -	(703) 308-6233 Room# PY1	S-8855		
Risk Manager Reviewer:	Emilia Oiguenblik EOIG	GUENB			
Sent Date:		Calculated Due Dat	: 15-Aug-2011	Edited Due Date:	
Type of Registration:	Product Registration - S	Section 3	ok		
Action Desc:	(362) FORMULA CHAN	NGE;TECHNICAL;			
Ingredients:	107401, 1-Octadecana	minium, N,N-dimethyl-N-(3-(t	rimethoxysilyl)propyl)-, cl	nloride(5%)	
	* * *	* Data Package In	formation * * *		
Expedite:	○ Yes ● No	Date Ser	t: 24-May-2011	Due Back:	
DP Ingredient:	107401, 1-Octadecana	minium, N,N-dimethyl-N-(3-(t	imethoxysilyl)propyl)-, cl	nloride	
DP Title:					
CSF Included:	○ Yes ● No	Label Included: O Yes	No Parent DP	# :	
				9	0
Assigned To	0	Date In	Date Out	60	2
Organization: AD / P	SB	5/24/4	Last	Possible Science Due Date: 01-Jul-2011	
Team Name: CTT		5/24/41		Science Due Date: 7/8/1/	
Reviewer Name:	Lynette	5/24/4	S	ub Data Package Due Date: 7/22///	
Contractor Name:					
	***	Studies Sent for R	eview * * *		
		No Studies			

* * * Additional Data Package for this Decision * * *

No Additional Data Packages

* * * Data Package Instructions * * *

Registrant has submitted CSF to be reviewed.

label of ackert

5/24/11)



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 1200 Pennsylvania Avenue, N.W. WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for registration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the completed form to this address.

Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Ave to this address.		
Certification with Respect to	Citation of Data	
Applicant's/Registrant's Name, Address, and Telephone Number PureShield Inc., 1445 Jupiter Park, Suite 1, Jupiter, FL 33458 561-747-5758		EPA Registration Number/File Symbol 87583-2
Active Ingredient(s) and/or representative test compound(s) 3-(Trimethoxysilyl)propyl dimethyl octadecyl ammonium chloride		Date 5/13/11
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158 antimicrobial	3)	Product Name Bio-Protect AM500
NOTE: If your product is a 100% repackaging of another purchased EPA-register submit this form. You must submit the Formulator's Exemption Statement (EPA Formulator's Exemption Statement)		for all the same uses on your label, you do not need to
I am responding to a Data-Call-In Notice, and have included with this form a be used for this purpose).	list of companies	sent offers of compensation (the Data Matrix form should
SECTION I: METHOD OF DATA SUP	PORT (Check one	method only)
I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).	✓ under t	sing the selective method of support (or cite-all option the selective method), and have included with this form a sted list of data requirements (the Data Matrix form must be
SECTION II: GENERAL	OFFER TO PAY	
I hereby offer and agree to pay compensation, to other persons, with regard to		nis application, to the extent required by FIFRA.
I certify that this application for registration, this form for reregistration, or the application for registration, the form for reregistration, or the Data-Call-In response. In indicated in Section I, this application is supported by all data in the Agency's files the substantially similar product, or one or more of the ingredients in this product; and (2) requirements in effect on the date of approval of this application if the application sou uses. I certify that for each exclusive use study cited in support of this registration the written permission of the original data submitter to cite that study. I certify that for each study cited in support of this registration or reregistrate submitter; (b) I have obtained the permission of the original data submitter to use the compensation have expired for the study; (d) the study is in the public literature; or (e) offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(amount and terms of compensation, if any, to be paid for the use of the study. I certify that in all instances where an offer of compensation is required, co accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will evidence to the Agency upon request, I understand that the Agency may initiate action FIFRA. I certify that the statements I have made on this form and all attaches knowingly false or misleading statement may be punishable by fine or Imprise	his Data-Call-In rean addition, if the citat (1) concern the pis a type of data tight the initial registration, ion that is not an estudy in support of the law enotified in c)(2)(B) of FIFRA; pies of all offers to be submitted to the note of the law enotified to the note of the law enotified to the submitted to the note of law enote of law e	the all option or cite-all option under the selective method is properties or effects of this product or an identical or nat would be required to be submitted under the data tration of a product of identical or similar composition and that I am the original data submitter or that I have obtained exclusive use study, either: (a) I am the original data if this application; (c) all periods of eligibility for writing the company that submitted the study and have and (ii) to commence negotiations to determine the pay compensation and evidence of their delivery in the eagency upon request. Should I fail to produce such or suspend the registration of my product in composition with the eagency and compositions. Lacknowledge that any
Signature / Just	Date 5/13/11	Typed or Printed Name and Title Kevin R. Kutcel - Consultant

EPA Form 8570-34 (12/2003) Electronic and Paper versions available. Submit only Paper version.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

	DATA	MATRIX		• • • • •	
Date 5/13/11		EPA Reg No./File Symbol 87583-2	Page 1 of		
Applicant's/Registrant's Name & Address reShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458			Product Bio-Protect AM500		
ngredient 3-(trimethyloxysilyl) pro	pyldimethyloctadecyl ammonium chloride				
Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
	BioShield Technologies, Inc. (1997) Product Identity and	44279401	Inhold LLC	per	cite-all
	Composition of AM 500 I and AM 500. 14 p.				
	BioShield Technologies, Inc. (1997) Description of	44279402	Inhold LLC	per	cite-all
	Beginning Materials and the Manufacturing Process of				
	AM 500 I and AM 500. Unpublished study. 24 p.				
	Berkner, J. (1997) Discussion of Formation of Impurities	44279403	Inhold LLC	per	cite-all
	in AM 500 I and AM 500. 4 p.				
	Wells, D. (1997) AM500—Conducting Product Chemistry	44279404	Inhold LLC	рег	cite-all
	Studies for an End-Use Product. 44 p. (OPPTS 830.6302,				
	830.6303, 830.6304, 830.7300,830.7100, & 830.7000)				
	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary	44351901	Inhold LLC	per	cite-all
	Analysis, Certification of Ingredient Limits, and Analytical				
	Method for Enforcement of Limits for BioShield AM 500				
	and BioShield AM 500 I. 13 p.				
Signature	16 The		Name and Title		Date



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY 401 M Street, S.W. WASHINGTON, D.C. 20460

Form Approved OMB No. 2070-0060

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 0.25 hours per response for registration activities and 0.25 hours per response for registration activities activities and 0.25 hours per response for registration activities reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden estimate or any other aspect of this collection of reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding the burden to: Director, OPPE Information Management Division (2137), U.S. Environmental Protection Agency, 401 M Street, S.W., Washington, DC 20460. Do not send the form to this address. **DATA MATRIX** Date 5/13/11 EPA Reg No./File Symbol 87583-2 Page 1 of Applicant's/Registrant's Name & Address **Product** reShield Inc., 1445 Jupiter Park, Suite 11, Jupiter, FL 33458 Bio-Protect AM500 Ingredient 3-(trimethyloxysilyl) propyldimethyloctadecyl ammonium chloride Guideline Reference Number Guideline Study Name **MRID Number** Submitter Status Note Inhold LLC per Inhold LLC рег Inhold LLC per Inhold LLC per Inhold LLC per Signature Name and Title Date Kevin Kutcel - Consultant May 13, 2011

Please read instructions on	reverse before compl	form.	Form	Approved	. Q No. 20	70-0060	Print Form
United States Environmental Protection Ages Washington, DC 20460				×	Registra Amenda Other	tion	OPP Identifier Number
	-	Application for	Pesticide - S	Section	U		
1. Company/Product Numb PureShield Inc. / 87583-			2. EPA Product Velma Noble				posed Classification
4. Company/Product (Name PureShield Inc. / Bio-Pro	otect AM500		PM# 31				None Restricte
5. Name and Address of Appendix PureShield Inc. 1445 Jupiter Park Drive Jupiter, FL 33458 Check if the			(b)(i), my product National (b)(ii), my product National (b)(iii),	o	nilar or ident		FIFRA Section 3(c)(3) mposition and labeling
		Se	ction - II				
Resubmission in res Notification - Explain	ponse to Agency letter	dated	Agend *Me T	orinted labory letter da coo" Applica- Explain b	etion.	to	
		Se	ction - III				
1. Material This Product W	ill Be Packaged in:						
Child-Resistant Packaging Yes* X No * Cartification must be submitted	Unit Packaging Yes X No If "Yes" Unit Packaging wgt.	No. per If "Y		per tainer	2. Type of	Container Metal Plastic Glass Paper Other (S	specify)
3. Location of Net Contents	Information Container	4. Size(s) Retail Cont	tainer	5. L			ns panying product
6. Manner in Which Label i	Affixed to Product	Lithograph Paper glued Stenciled		Other			
			ction - IV				
1. Contact Point (Complet	e items directly below fo	or identification of inc	lividual to be conta	ctad, if ne	cessary, to pro	ocess this	application.)
Name Kevin Kutcel		Title Consu	ltant			Telephone 440-263	No. (Include Area Code) -7305
I certify that the stat I acknowledge that a both under applicable	ements I have made on ny knowingly faise or m a law.	isleading statement (chments thereto ar may be punishable	e true, acc by fine or	curate and cor imprisonment	npiate	6. Date Application Received (Stamped)
2. Signature	, ,	3. Title				0 0	•

Consultant

5/12/2011

5. Date

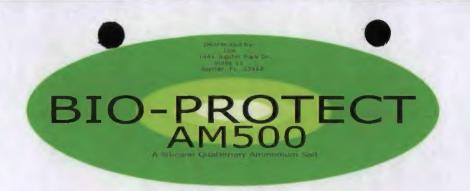
4. Typed Name

Kevin Kutcel

Material Sent for Data Extraction

Reg # 87583-2

Description:
Material(s) Sent to Data Extraction Contractors:
New Stamped Label Dated
Notification Dated
New CSF(s) Dated 3.1.11
Other:
☑ Decision #: 449558
☐ Other Action/Comments:
Attach this coversheet to the top of the material or jacket. It must be well organized and clipped together, NOT STAPLED. Then give the material with this coversheet to staff in the Information Services Center (Room S-4900).
Reviewer: E. Orguent k.h_
Phone: 347-0199 Division: AB
Date: Created February 3, 2011



MICROBIOSTATIC AGENT *

A Silicone Quaternary Ammonium Salt

Active Ingredient: 3-(trimethoxysilyl) propyldimethyloctadecyl ammonium chloride5.0	0%
Other Ingredients:95.	.0%
TOTAL INGREDIENTS: 100.0	0%

KEEP OUT OF REACH OF CHILDREN WARNING

EPA Reg. No. 87583-2

EPA EST. xxxxx-xx-xxxx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC, 1445 Jupiter Park Drive # 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.

Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

<u>Commercial and industrial uses</u>: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge

Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foat finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from ... hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart; 1 oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board

- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery
- Women's intimate apparel

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon, orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due

			to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application
	controlled	Rate	
Air filters and air	Odor-causing	8 oz / gallon	SPRAY: Dilute AM500 in water; mix
filter material for:	bacteria,	2 oz / quart	well. When treating filters, remove filter
• Furnaces, air	bacteria	1 oz / pint	from the unit. Using a trigger pump
conditioners	which cause		sprayer or pressure sprayer, spray the
Air purification	staining and		entire surface area 4"-6" from the surface,
systems	discoloration,		making sure the surface is completely
 Automobiles 	fungi (mold		covered. Apply and then let stand until
Recirculating	and mildew),		dry. If necessary, reapply AM500 every
air handling	and algae		three months or when odor, staining and
systems			discoloration due to bacteria, mold stains,
Vacuum			mildew stains, and algae stains return.
cleaner filters			
Aquariums			
	Pest	Dilution	Method of Application
	controlled	Rate	

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	spray: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not soak. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	Controlled Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	Rate 8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer).
			If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Roofing materials	Odor-causing	8 oz / gallon	SPRAY: Dilute AM500 in water; mix

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed porcelain,		7-	
synthetic marble,			
plastic, vinyl			

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria. Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew). Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

For Residential Use

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available.

Nonresidential Use (Containers larger than 5 gallons)

Container Disposal: Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration.

Pureshield, Inc.

February 10, 2011

Velma Noble, Product Manager, Team 31 U.S. Environmental Protection Agency Office of Pesticide Programs Antimicrobials Division (7501P) 1200 Pennsylvania Ave. NW Washington, D.C. 20460

Re: Appointment of AgCens LLC and its President, Phil Hutton, as an authorized representative for Pureshield, Inc.

To Whom It May Concern,

This letter will serve as written notification that AgCens LLC and its President, Phil Hutton, have been appointed as an authorized representative of Pureshield, Inc. regarding applications for Bio-Protect AM500 (EPA Reg. Number: 87583-2) and Bio-Protect 7200 (EPA Reg. Number: 87583-1) to the Environmental Protection Agency.

Signe

Joe Raich President

> 1445 Jupiter Park Dr. Suite 11 Jupiter, FL 33458

PHONE (561) 747-5758

FAX (561) 747-5191

E-MAIL info@AM500.com

WEB SITE http://www.AM500.com

Please read instructions on r	everse before com		Form Appre	No. 2070-	Print Form
\$EPA	United States Environmental Protection Age Washington, DC 20460			Registration Amendment Other	
	Applic	ation for I	Pesticide - Sect	ion I	
1. Company/Product Number PureShield Inc. / 87583-2			2. EPA Product Mena Velma Noble	nger	3. Proposed Classification
4. Company/Product (Name) PureShield Inc. / Bio-Prot	ect AM500		PM# 31		X None Restricted
PureShield Inc. 1445 Jupiter Park Drive, Jupiter, FL 33458 Check if this		+	(b)(i), my product i to:	s similar or identical	with FIFRA Section 3(c)(3) in composition and labeling
		Sec	tion - II		
Amendment - Explain Resubmission in resp Notification - Explain	onse to Agency letter dated		Final printed Agency lett "Me Too" A Other - Expl	pplication.	9/7/2010
Material This Product Will Child-Resistant Packaging Yes*	Be Packaged In: Unit Packaging Yes		Soluble Packaging	2. Type of Cor	nteiner letal
No No Provide No	X No If "Yes" No. pe Unit Packaging wgt. contain	Donker	No	X P	lestic less aper ther (Specify)
3. Location of Net Contents	2.4	8, 16, 20, 23 55, 150, 3	ner 2,36 oz 300 gallons	5. Location of Label D X On Label On Labeling	Directions
6. Manner in Which Label is	Affixed to Product	ithograph aper glued itenciled	Other		••••
		Sect	ion - IV		** *
1. Contact Point Complete	items directly below for identif	ication of indiv	idual to be contacted,	if necessary, to proce	ss this application.)
Name Kevin Kutcel		Title Consult	ant		ephone No. (Include Area Code) 0-263-73(35
	ments I have made on this form y knowingly false or misleading				6. Pero-Application Received (Stamped)
2. Signeture	Must	3. Title Consult	ent		
4. Typed Name Kevin Kutcel		5. Date 2/9/20	1		

EPA Form 8570-1 (Rev. 8-94) Previous editions are obsolete.

White - EPA File Copy (original)

Yellow - Applicant Copy

ACCEPTED with COMMENTS in EPA Letter Dated:

SEP -7 2010

der the Federal Insecticide, agicide, and Rodenticide Act as sended, for the pesticide, pistered under EPA Reg. No. 87.583 - 2



MICROBIOSTATIC AGENT •
A Silicone Quaternary Ammonium Salt

WARNING

EPA Reg. No. 87583-

EPA EST. XXXXX-XXXX

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NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC, 1445 Jupiter Park Drive # 11, Jupiter, Florida 3:3458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.

Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

<u>Commercial and industrial uses</u>: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge

Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

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AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indoor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

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films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

 Polyurethane and cellulose foam for household, industrial, and institutional sponges and mops

mops

- Polyurethane and polyethylene foam, when covered

- Polyurethane foam for packaging and cushioning in non-food contact applications

- Polyurethane foam used as a growth medium for non-food crops and plants

- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Woman's hosiery
- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 oz. per quart: 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; loz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures, not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains

- Exterior walls (such as stone, concrete, brick)

- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Nor woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indeor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resias used as additive mixes for cement, epoxy laminating resins, and blends and opolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

of water to the second of the second countries to the second of the seco	Pest	Dilution	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
	Pest controlled	Dilution Rate	Method of Application
orlon, polyester, polyethylene, polyolefins, polypropylene, rayon, silk, spandex, vinyl, and wool.			SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
10	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test scaining and color-fastness of fabric by treating and drying a small concealed area prior to application. When applying to mattress pads and ticking do not seek. Remove children and pets from treated area until completely dried. If necessary, reapply

apparel, where the fiber is cotton, natural down, nylon, rayon, or wool			AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tents, tarpaulins, sails, ropes.	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains,
	Pest controlled	Dilution Rate	and mildew stains return. Method of Application

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed	
porcelain,	·
synthetic marble,	
plastic, vinyl	

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria. Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew). Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria. Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew). Provides/creates an invisible barrier to inhibit the growth of algae. Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]

U.S. ENVIRONMENTAL PROTECTION

AGENCY

 Office of Pesticide Programs Antimicrobials Division (7510P) 1200 Pennsylvania Avenue NW Washington, D.C. 20460

NOTICE OF PESTICIDE:

x Registration Reregistration

EPA Req. Number: Issuance: 87583-2 SEP - 7 2010 Term of Issua Conditional Name of Pesticide Product:

Bio-Protect AM 500

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code): PureShield Inc.

1445 Jupiter Park, Suite 1,

Jupiter, Fl. 33458

din connection with this registration must be submitte ace picoloy (ino Acelon Clon Division prior to ປອນ ເວທາການ ເລືອກການຕົວເຂົ້າ. In Any come posteine contrib produc

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(a) provided that you:

- Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
- 2. Make the labeling change listed below before you release the product for shipment:

(a) Revise the EPA Registration Number to read, "EPA Reg. No. 87583-2

Signature of Approving Official:

Velma Noble

Product Manager Team-31

Regulatory Management Branch I

Antimicrobials Division (7510P)

Date:

EPA Form 8570-6



EPA Form 1320-1A (1/90)

Printed on Recycled Paper

Page 2 EPA Reg. No. 87583-2

 ≤ 1

(b) Your label does not agree with the cited label. Please delete bullets number 8 and 9 on page 5 which reads:

"Concrete additive for sewer pipes, manhole and concrete sewer structures not to be used in treatment of storm drains".

"Concrete additive for repair and renewal of sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains.

(c) Your label does not agree with the cited label. Please delete bullet number 6 on page 6 which reads:

"Am500 can be used in paints and coating as an in can preservative for protection of paint film and coating film. Types of paints and coating include: latex indoor/outdoor paints and stains, wood stains, architectural paint, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coating, architectural coating overlays, anti-corrosion coating, fire-resistant coating aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resin, blends and copolymers thereof".

(d) Your label does not agree with the cited label. Please delete bullet number 11 on page 6 which reads:

Premoistened towelettes and tissue wipes (these do not impact pesticidedial properties) Roofing material-defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats.

(e) Your label does not agree with the cited label. Please delete bullet number 8 on page 6 which reads:

Non-woven disposable diapers.

(f) Please revise the storage and disposal language on page 13 to read as following:

"Container Handling: (containers intended for residential users)

Nonrefillable\container. Do not reuse or refill this container. Securely wrap original container in several layers of newspaper and discard in trash or offer for recycling if available."

"Container Handling: (containers intended for nonresidential users, larger than 5 gallons) "Nonrefillable container. Do not reuse or refill this container. Triple rinse or pressure rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ½ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Dispose of rinsate as pesticide waste. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. Submit one (1) copy of your final printed labeling prior to release of this product for shipment. If you have any questions concerning this letter, please contact Velma Nobel at (703) 308-308-6233.

Sincerely,

Velma Noble

Enclosures: Stamped Label

Product Manager 31 Regulatory Branch I

Antimicrobials Division (7510P)

205

With COMMENTS in EPA Letter Dated:

SEP - 7 2010 der the Federal Insecticide.

ligicide, and Rodenticide Act as rended, for the pesticide, pistered under EPA Reg. No. 87583 - 2



MICROBIOSTATIC AGENT * A Silicone Quaternary Ammonium Salt

KEEP OUT OF REACH OF CHILDREN WARNING

EPA Reg. No. 87583-

EPA EST. xxxxx-xx-xxxx

NET CONTENTS: 2, 4, 8, 16, 20, 22, or 36 fluid oz.; 1, 5, 55, 150, or 300 gal.

FIRST AID

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and then give artificial respiration, preferably mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

IF ON SKIN:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious person.

*A microbiostatic agent is an agent that inhibits the growth of odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

This product does not protect users or others against food-borne or disease-causing bacteria.

PURESHIELD INC, 1445 Jupiter Park Drive # 11, Jupiter, Florida 33458

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

WARNING: Causes substantial but temporary eye injury. Harmful if absorbed through skin or inhaled. Do not get in eyes. Avoid contact with skin and avoid breathing vapor.

Wear protective eyewear (goggles or face shield). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARDS

<u>Commercial and industrial uses</u>: This pesticide is toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge

Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

De-activation may be required during clean up if a spill occurs. De-activation of AM500 can be achieved by the addition of anionic surfactant (such as soap, sulfonates, sulfates) in quantity equivalent to that of AM500.

<u>Homeowner use</u>: This pesticide is toxic to fish. Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of pesticide.

DIRECTIONS FOR USE

Approved commercial and Industrial Applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry.

Prepare solution by simply adding AM500 to solvent and stirring. AM500 can also be diluted by adding 0.2 to 2 fluid ounces of AM500 per cup (3.2 to 32 fluid ounces of AM500 per gallon) of water or other solvents (for example, alcohol and ketones) and than applied to organic or inorganic substrates by brushing, dipping, padding, soaking, spraying, fogging or by using foam finishing techniques to give a final treatment of 0.1 to 1.0 percent by weight active ingredient.

Dry substrates at temperatures from ambient to a maximum of 160° C (320° F) to effect complete condensation of silanol groups and to remove water, solvents and/or traces of methanol from hydrolysis. Optimum application and drying conditions, such as time and temperature, should be determined for each application before use. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

AM500 when used as a concrete additive is added directly concrete preparation. Use 6 fluid ounces AM500 per cubic feet of concrete. Add to water before addition of concrete. Addition of AM500 reduces deterioration of sewer pipes and manholes by inhibiting microbiologically induced corrosion.

AM500 when used as an additive for paints and coatings is added directly during preparation of the paint or coating. Use 5 pounds of AM500 per 100 pounds of paint or coating (or 1 pound AM500 per 20 pounds paint/coating). The addition of the antimicrobial agent (AM500) to paints at the point of manufacture preserves the paint in the can as well as the dried paint film. AM500 inhabits the growth of odor causing bacteria, bacteria which causes staining and discoloration, fungi (mold and mildew), and algae on the surface of dried films and coatings.

Approved commercial and industrial applications

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures; not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains
- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non-woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in-can preservative for protection of
 paint film and coating film. Types of paints and coatings include: latex indoor/outdoor
 paints and stains, woodstains, architectural paints, lacquer and maintenance coatings,

films, laminates and finishes including alkyd, urethane, enamel, epoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays, anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and copolymers thereof;

Polyurethane and cellulose foam for household, industrial, and institutional sponges and

mops

- Polyurethane and polyethylene foam, when covered

- Polyurethane foam for packaging and cushioning in non-food contact applications

- Polyurethane foam used as a growth medium for non-food crops and plants

- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lyrca
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethyiene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool

Vacuum cleaner bags and filters

Vinyl paper-wallpaper for non-food contact surfaces

 Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties

- Woman's hosiery

- Woman's intimate apparel

DIRECTIONS FOR USE

Approved commercial appliances used in homes, offices, automobiles and institutions e.g., schools, hospitals, daycare centers, churches, correctional facilities

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles and face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

For Pump Spray Application: Dilute 8 ounces of AM500 per gallon of water (2 5z, per quart; 1oz. per pint). Using pump sprayer, spray entire area 4"-6"s from the surface making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe

dry with cloth of sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. A fan may be used to assist in drying carpet.

For Commercial Spray Application: For commercial application equipment (i.e. carpet/upholstery steamers, rotary jet extraction cleaners, and pressure sprayers) dilute 8 ounces of AM500 per gallon of water (2oz. per quart; loz. per pint); mix well. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test for staining and color-fastness of fabrics and carpets by treating and drying a small, concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates, more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry and dry articles before use. A fan may be used to assist in drying carpet.

For Dipping/Soaking Application: Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Dilute 8 ounces of AM500 per gallon of water (2oz. per quart; 1oz. per pint); mix well. Completely submerge item in solution for 3 minutes. Remove item and dry. Test for staining and color-fastness of fabrics by treating and drying a small, concealed area prior to application. Do not reuse solution after dipping/soaking.

The substrate can be dried at room temperature or at temperatures to a maximum of 160°C (320°F), for example in a clothes dryer. Remove excess liquid before attempting to dry in a clothes dryer. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

Approved commercial applications in homes, offices, automobiles, and institutions e.g., schools, hospitals, day care centers, banks, churches, correctional facilities

The active ingredient in AM500 is effective against odor causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew) and algae as a static agent.

AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

- Air Filters for furnaces, air-conditioners, air purification devices, automobiles, recirculating air handling systems.
- Air filters/materials
- Aquarium filter material
- Bed sheets, blankets, and bedspreads
- Buffer pads (abrasive and polishing)
- Carpets and draperies
- Cellulose sponges
- Concrete additive for sewer pipes, manholes and concrete sewer structures, not to be used in treatment of storm drains
- Concrete additive for repair and renewal of sewer pipes and manholes and concrete sewers structures; not to be used in treatment of storm drains

- Exterior walls (such as stone, concrete, brick)
- Fiberfill for upholstery, sleeping bags, apparel, where the fiber is cotton, natural down, nylon, polyester, rayon, or wool
- Fiberglass duct board
- Fire hose fabric
- Humidifier belts
- Mattress pads and ticking
- Men's underwear and outerwear
- Non woven disposable diapers
- Non-woven polyester
- Outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos)
- AM500 can be used in paints and coatings as an in can preservative for protection of paint film and coating film. Types of paints and coatings include: latex indeor/outdoor paints and stains, woodstains, architectural paints, lacquer and maintenance coatings, films, laminates and finishes including alkyd, urethane, enamel, enoxy, siloxaline, amino resins, textile coatings, extrusion, coatings, architectural coatings and overlays anti-corrosion coatings, fire-resistant coatings, aliphatic coatings, vinylester and polyester coatings, gel coating, amino resins, resins used as additive mixes for cement, epoxy laminating resins, and blends and opolymers thereof;
- Polyurethane and cellulose foam for household, industrial, and institutional sponges and
- Polyurethane and polyethylene foam, when covered
- Polyurethane foam for packaging and cushioning in non-food contact applications
- Polyurethane foam used as a growth medium for non-food crops and plants
- Pre-moistened towelettes and tissue wipes (these do not impart pesticidal properties)
- Roofing materials defined as shingles, roofing granules, wood shakes, felt, stone and synthetic overcoats
- Sand bags, tents, tarpaulins, sails, and ropes
- Athletic and casual socks
- Shoe insoles
- Shower curtains
- Socks comprised of nylon, nylon/orlon, cotton/nylon, linen/Lycra, acrylic/polypropylene, nylon, Lycra, wood/silk/nylon/Lycra and wool/acrylic/nylon/Lycra
- Throw rugs Toweling made of 100 percent cotton, 100 percent polyester, and blends of the two fibers
- Toilet Tank and seat covers
- Umbrellas
- Upholstery made of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polyptopylene, rayon, spandex, vinyl, wool
- Vacuum cleaner bags and filters
- Vinyl paper-wallpaper for non-food contact surfaces
- Disposable wiping cloths that can be used for multiple purposes such as dusting or washing furniture, cars, walls, windows, floors, appliances, dishes, counter tops; the wiping cloths do not impart pesticide properties
- Women's hosiery

DIRECTIONS FOR USE

For homeowner applications

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Wear protective eyewear (goggles or face shield) and gloves when using this product. Dry treated areas and articles such as clothing before use. Remove children and pets from treated area until completely dry. Clean surfaces prior to application.

Approved homeowner uses

The active ingredient in AM500 is effective against odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae as a static agent. AM500 can be used as a final bacteriostatic finish on the following items to impart bacteriostatic/fungistatic (mold and mildew) activity.

	Pest controlled	Dilution Rate	Method of Application
Bedsheets, blankets, bedspreads, curtains, draperies (washable only), underwear, socks, intimate apparel, hosiery, throw rugs, toweling, toilet tank covers, shower curtains, shoe insoles, outerwear apparel (jackets, sweaters, sweatshirts, coats, raincoats, overcoats, jerseys, ponchos). AM500 can be applied to fabrics made of acetates, acrylics, cotton, fiberglass, linen, Lycra, nylon,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes. Remove item and wring excess liquid from treated item. For larger items (e.g. bedspreads, curtains, draperies), place in washing machine on spin cycle to aid in the removal of excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at temperatures of a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

	Pest controlled	Dilution Rate	Method of Application
Air filters and air filter material for: • Furnaces, air conditioners • Air purification systems • Automobiles • Recirculating air handling systems • Vacuum cleaner filters • Aquariums	Odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. When treating filters, remove filter from the unit. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, mildew stains, and algae stains return.
orlon, polyester, polyethylene, polyelfins, polypropylene, rayon, silk, spandex, vinyl, and wool.	Pest controlled	Dilution Rate	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return. Method of Application

Carpeting	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	spray: Dilute AM500 in water; mix well. Apply to clean carpet surface. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. For rotary jet extraction cleaners and carpet steamers, add the diluted AM500 solution directly to the cleaning tank, then operate the equipment in accordance with manufacturer's instructions. Apply and then let stand until dry. Test staining and color-fastness of carpets by treating and drying a small concealed area prior to application. AM500 treats approximately 200 square feet per diluted gallon of water. When treating coarser substrates (e.g., wool carpeting), more AM500 may be required due to absorption. Dry carpet areas and surfaces before re-entry. A fan may be used to assist in drying carpeting. Remove children and pets from treated area until completely dried. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Mattress pad and mattress ticking and upholstery composed of acetates, acrylics, cotton, fiberglass, nylon, polyester, polyethylene, polyolefins, polypropylene, rayon, spandex, vinyl, wool; fiberfill to be used in upholstery, sleeping bags,	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surfaces prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Apply and then let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occure, wipe with moist cloth or sponge. Test scaining and color-fastness of fabric by tracting and drying a small concealed area prior to application. When applying to mattress pads and ticking do not scale. Remove children and pets from treated area until completely dried. If necessary, reapply

	discoloration,		surface is completely covered. Let stand
	bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	1 oz / pint	Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. Test staining and color-fastness of fabric by treating and drying a small concealed area prior to application. If necessary,
	-		reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
			DIP/SOAK: Dilute AM500 in water; mix well. Use appropriate sized wash basin or tub for dipping/soaking the item you are treating. Use enough AM500 solution to completely submerge item. Keep item in solution for 3 minutes.
			Remove item and wring excess liquid. Test staining and color-fastness of fabric and carpets by treating and drying a small concealed area prior to application. Do not reuse solution after dipping/soaking. Dry treated articles before use. Substrates can be hang-dried at room temperature or at
			temperatures to a maximum of 160°C (320°F); (for example, in a clothes dryer). If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest	Dilution	Method of Application

(such as shingles, roofing granules, wood shakes, felt, stone, synthetic overcoats) Exterior walls (such as stone, concrete, brick)	bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae	2 oz / quart 1 oz / pint	well. Make sure the roof or wall is clean prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 6"-12" from the surface, making sure the surface is completely covered. After applying the diluted solution of AM500, let stand until dry. AM500 treats approximately 200 square feet of roofing or wall per diluted gallon of water. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Buffer pads (polishing and abrasive), polyurethane for household sponges and mops, vacuum cleaner bags, umbrellas, casual shoes, athletic shoes	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Clean surface prior to application. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.
	Pest controlled	Dilution Rate	Method of Application
Tubs, glazed tile, vanity tops, shower curtains, shower stalls (areas), sinks, washable walls, wall paper for non-food contact, floors, window sills, cabinets, garbage cans, appliances, refrigerators (exterior), fiberglass, formica, glazed	Odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew)	8 oz / gallon 2 oz / quart 1 oz / pint	SPRAY: Dilute AM500 in water; mix well. Using a trigger pump sprayer or pressure sprayer, spray the entire surface area 4"-6" from the surface, making sure the surface is completely covered. Let stand until dry or let stand 3 minutes and wipe dry with cloth or sponge. If spotting occurs, wipe with moist cloth or sponge. If necessary, reapply AM500 every three months or when odor, staining and discoloration due to bacteria, mold stains, and mildew stains return.

tiles, glazed			
porcelain,			
synthetic marble,			
plastic, vinyl		_	

MOLD, MILDEW, ODOR PROTECTOR AND INHIBITOR AM500 is an antimicrobial agent effective against odor-causing bacteria.

AM500 is an antimicrobial agent effective against bacteria which cause staining and discoloration.

AM500 is an antimicrobial agent effective against fungi (mold and mildew).

AM500 is an antimicrobial agent effective against algae.

AM500, and antimicrobial agent, controls the source of odors on surfaces in the home, in the bathroom, in the kitchen. (Bacteriostatic, fungistatic (mold and mildew), algaestatic.

AM500, and antimicrobial agent, inhibits smelly odors caused by mold and mildew that can grow even in the cleanest of homes.

AM500, and antimicrobial agent, inhibits the growth of odor causing bacteria.

Effective on hard non-porous washable bathroom and kitchen surfaces and fixtures around the home.

Effective on modern hard non-porous washable surfaces like fiberglass, glazed porcelain, Formica®, stainless steel, synthetic marble.

Imparts microbiostatic properties.

Use on carpet and upholstery to inhibit odor-causing bacteria, bacteria which cause staining and discoloration, and fungi (mold and mildew).

Unscented.

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria.

Use on carpet and upholstery to inhibit the growth of bacteria which cause staining and discoloration.

Use on carpet and upholstery to inhibit the growth of fungi (mold and mildew).

Use on carpet and upholstery to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria.

Provides and invisible microbiostatic coating to inhibit the growth of bacteria which cause staining and discoloration.

Provides and invisible microbiostatic coating to inhibit the growth of fungi (mold and mildew).

Provides and invisible microbiostatic coating to inhibit the growth of algae.

Provides and invisible microbiostatic coating to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

Prevents deterioration caused by bacteria and fungi (mold and mildew).

Inhibits deterioration caused by bacteria.

Resists development of microbial odors.

Resists development of stains and discoloration due to bacteria.

Resists development of stains due to fungi (mold and mildew).

Resists stains due to algae.

Resists development of microbial odors, stains and discoloration due to bacteria, fungi (mold and mildew), and algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria.

Provides/creates an invisible barrier to inhibit the growth of bacteria which cause staining and discoloration.

Provides/creates an invisible barrier to inhibit the growth of fungi (mold and mildew). Provides/creates an invisible barrier to inhibit the growth of algae.

Provides/creates an invisible barrier to inhibit the growth of odor-causing bacteria, bacteria which cause staining and discoloration, fungi (mold and mildew), and algae.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Store in original, tightly closed containers below 30°C (86°F) and above 0°C (32°F) in a secure area inaccessible to children and away from food or feed.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. [For homeowner use the statement will read: "Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site."]

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerate, or, if allowed by state and local authorities, dispose of by burning. If burned, stay out of smoke. [For homeowners use statement will read: "Container Disposal: Securely wrap original container in several layers of newspaper and discard in trash."]



5807 Churchill Way Medina, OH 44256 Tel: 440-263-7305

E-mail: kevinkutcel@gmail.com

May 12, 2010

Document Processing Desk (AMEND) Office of Pesticide Programs (7504P) U.S. Environmental Protection Agency Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: CSF Formulation Amendment (EPA No. 87583-2)

Please accept the attached two copies of an alternate Confidential Statement of Formula (EPA Form 8570-4) for Reg. No. 87583-2 "Bio-Protect AM500" along with one copy of the current Confidential State of Formula on file with the EPA for this registration.

Please note that the original CSF is a 100% repackage of

attached is a elevant product

letter of authorization from Inhold LLC granting permission to cite their relevant product chemistry and the corresponding data matrices citing the specific product chemistry studies.

Please note that KRK Consulting LLC is the authorized agent handling all correspondence for PureShield Inc. and therefore all responses should be directed to the contact information on the letterhead above.

Best Regards,

Kevin R. Kutcel,

Agent for PureShield Inc.

INHOLD LLC

1445 Jupiter Park Dr. Suite 11 Jupiter, FL 33458

April 21, 2010

U.S. Environmental Protection Agency Office of Pesticide Programs (H7505C) Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: Inhold, LLC Letter of Authorization for PureShield Inc. (Reg. No. 87583-)

To Whom It May Concern:

The following studies are owned by Inhold, LLC (company no. 70871) and this letter grants permission for PureShield Inc. (company no. 87583) to cite the following studies on their data matrices in support of the registration of their products, "Bio-Protect AM500" and "Bio-Protect 7200".

MRID No.	Study Title
44279400	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Applications for Registration for AM 500 I and AM 500. Transmittal of 4 Studies.
44279401	BioShield Technologies, Inc. (1997) Product Identity and Composition of AM 500 I and AM 500. Unpublished study. 14 p.
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44279404	Wells, D. (1997) AM500Conducting Product Chemistry Studies for an End-Use Product Following Product Properties Test Guidelines: Final Report: Lab Project Number: 97-3-6913:13637.1196.6100.880. Unpublished study prepared by Springbor Laboratories, Inc. 44 p. {OPPTS 830.6302, 830.6303, 830.6304, 830.7300, 830.7100, & 830.7000}
44351901	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary Analysis, Certification of Ingredient Limits, and Analytical Method for Enforcement of Limits for BioShield AM 500 and BioShield AM 500 I: Lab Project Number: 13637.0497.6102.250: 102196/830.6317/BIOSHIELD. Unpublished study prepared by Springborn Laboratories, Inc. 13 p.
44376000	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Protectant Concentrate C15. Transmittal of 3 Studies.
44376001	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant Concentrate C15. Unpublished study. 23 p.
44376002	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for

	Enforcement of Limits for BST Protectant Concentrate C15: Lab Project Number 102196/830.6317/BIOSHIELD. Unpublished study. 11 p.
44376003	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectan Concentrate C15. Unpublished study. 4 p.
44376200	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Registration of BST Protectant 50. Transmittal of 3 Studies.
44376201	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant 50 Unpublished study. 23p.
44376202	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Protectant 50. Unpublished study. 11 p.
44376203	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant 50. Unpublished study. 4 p
44379400	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of Application for the Registration of BST Protectant 75. Transmittal of 3 Studies.
44379401	BioShield Technologies, Inc. (1997) Product Identity of BST Protectant 75 Unpublished study. 23 p.
44379402	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Protectant 75. Unpublished study. 11 p.
44379403	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant 75. Unpublished study. 4 p.
44385100	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Kleen Air 05. Transmittal of 3 Studies.
44385101	BioShield Technologies, Inc. (1997) Product Identity of BST Kleen Air 05. Unpublished study. 31p.
44385102	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Kleen Air 05: Lab Project Number 102196/830.6317/BIOSHIELD. Unpublished study. 12 p
44385103	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Kleen Air 05. Unpublished study. 4 p.
44385200	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Fabric Softener 175. Transmittal of 3 Studies.
44385201	BioShield Technologies, Inc. (1997) Product Identity of BST Fabric Softener 175 Unpublished study. 67 p
44385202	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Fabric Softener 175. Unpublished study. 12 p.
44385203	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Fabric Softener 175. Unpublished study. 4 p.
44385300	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Cleaner Aeroso 25. Transmittal of 3 Studies.
44385301	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholster Cleaner Aerosol 25. Unpublished study. 41 p.
44385302	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner Aerosol 25 Unpublished study. 11 p.
44385303	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpe and Upholstery Cleaner Aerosol 25. Unpublished study. 4 p.
44385600	Bioshield Technologies, Inc. (1997) Submission of Product Chemistry Data in Suppor

	of the Application for Registration of BST Mold and Mildew Remover and All Purpose Cleaner 25. Transmittal of 3 Studies.
44385601	BioShield Technologies, Inc. (1997) Product Identity of BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 68 p.
44385602	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 12 p.
44385603	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Mold and Mildew Remover & All Purpose Cleaner 25. Unpublished study. 4 p.
44385700	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Concentrate C15. Transmittal of 3 Studies.
44385701	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner Concentrate C15. Unpublished study. 47 p.
44385702	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner Concentrate C15: Lab Project Number: 102196/830.6317/BIOSHIELD. Unpublished study. 12 p
44385703	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner Concentrate C15. Unpublished study. 4 p.
44386000	BioShield Technologies, Inc. (1997) Submission of Product Chemistry Data in Support of the Application for Registration of BST Carpet and Upholstery Cleaner 25. Transmittal of 3 Studies
44386001	BioShield Technologies, Inc. (1997) Product Identity of BST Carpet and Upholstery Cleaner 25 Unpublished study. 37 p.
44386002	BioShield Technologies, Inc. (1997) Certification of Limits and Analytical Method for Enforcement of Limits for BST Carpet and Upholstery Cleaner 25: Lab Project Number: 102196/830/6317/BIOSHIELD. Unpublished study. 11 p
44386003	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Carpet and Upholstery Cleaner 25. Unpublished study. 4 p
44553500	BioShield Technologies, Inc. (1998) Submission of Toxicity Data in Support of the Application for Registration of BioShield AM 500 and BioShield 500 I. Transmittal of 1 Study.
44553501	Kuhn, J. (1998) Primary Eye Irritation Study in Rabbits: AM500: Final Report: Lab Project Number: 4263-98. Unpublished study prepared by Stillmeadow Inc. 21 p.
44789800	BioShield Technologies, Inc. (1999) Submission of Toxicity Data in Support of the Application for Registration of BST Protectant 50. Transmittal of 1 Study.
44789801	Kuhn, J. (1999) Primary Eye Irritation Study in Rabbits: AM 500: Final Report: Lab Project Number: 4842-98. Unpublished study prepared by Stillmeadow, Inc. 17 p. {OPPTS 870.2400}
44789900	BioShield Technologies, Inc. (1999) Submission of Toxicity Data in Support of the Application for Registration of BST Protectant Concentrate C15. Transmittal of 1 Study
44789901	Kuhn, J. (1999) Primary Eye Irritation Study in Rabbits: (BST Protectant Concentrate C15): Final Report: Lab Project Number: 4841-98. Unpublished study prepared by Stillmeadow, Inc. 17 p. (OPPTS 870.2400)
44876600	BioShield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of BioShield AMS 1860. Transmittal of 3 Stockes.
44876601	Wells, D. (1999) AMS 1860-Preliminary Analysis: Lab Project Number: 13637.6119: 4.3.07(2). Unpublished study prepared by Springborn Laboratories. Inc. 51 p.

	{OPPTS. 830.1700}
44876602	Damico, J. (1999) AMS 1860-Certified Limits. Unpublished study prepared by BioShield Technologies, Inc. 4 p. {OPPTS. 830.1750}
44876603	Wells, D. (1999) AMS 1860-Product Chemistry Testing Test Guidelines, Series 830: Lab Project Number: 13637.6118. Unpublished study prepared by Springborn for an End-Use Product Following Product Properties Laboratories, Inc. 47 p. (OPPTS. 830.6302, 830.6303, 830.6304, 830.6315, 830.7300, 830.7100, 830.7000)
44885900	Bioshield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of Bioshield AMS 1860. Transmittal of 2 Studies.
44885901	Damico, J. (1999) Product Identity and Disclosure of Ingredients, Description of Beginning Materials and Manufacturing Process, and Discussion of the Formation of Impurities: AMS-1860. Unpublished study prepared by SciReg, Inc. 73 p. {OPPTS 830.1550, 830.1620, 830.1670}
44885902	Wells, D. (1999) AMS 1860Determination of the Boiling Point: Lab Project Number: 13637.6120. Unpublished study prepared by Springborn Laboratories. 25 p. {OPPTS 830.7200}
44929100	BioShield Technologies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of AMS 1860. Transmittal of 1 Study.
44929101	Ward, T.; Rondon, C.; Boeri, R. (1999) AMS 1860: Determination of Stability at Normal and Elevated Temperatures and in the Presence study prepared by T.R. Wilbury Labs., Inc. 40 p. {OPPTS 830.6313} of Metals and Metal Ions: Lab Project Number: 1853-BS. Unpublished
44972400	BioShield Technlogies, Inc. (1999) Submission of Product Chemistry Data in Support of the Application for Registration of BSTI 1860. Transmittal of 1 Study.
44972401	Damico, J. (1999) BSTI 1860: Product Identity and Disclosure of Ingredients, Description of Beginning Materials and Manufacturing Process, and Discussion of the Formation of Impurities. Unpublished study prepared by SciReg, Inc. 43 p. {OPPTS 830.1550, 830.1620, 830.1620, 830.1670, 830.1750}
45121300	BioShield Technologies, Inc. (2000) Submission of Product Chemistry and Toxicity Data in Support of the Application for Registration of AM 3651PI. Transmittal of 8 Studies
45121301	Smith, F. (2000) AM 3651PI: Product Identity and Composition, Description of Beginning Materials, Description of Formula Process, Discussion of the Formation of Impurities, and Certified Limits. Unpublished study prepared by SciReg, Inc. 40 p. {OPPTS 830.1550, 830.1600, 830.1650, 830.1670, 830.1750}
45121302	Wells, D. (1999) AM 3651PI—Determination of Storage Stability: Lab Project Number: 13637.0897.6107.865: 13637.6107. Unpublished study prepared by Springborn Labs., Inc. 36 p. (OPPTS 830.6317)
45121303	Kuhn, J. (1999) AM 3651PI: Acute Oral Toxicity Study in Rats: Final Report: Lab Project Number: 4850-98. Unpublished study prepared by Stillmeadow, Inc. 24 p. {OPPTS 870.1100}
45121304	Kuhn, J. (1999) AM 3651P: Acute Dermal Toxicity Study in Rabbits: Final Report: Lab Project Number: 4851-98. Unpublished study prepared by Stillmeadow, Inc. 22 p. {OPPTS 870.1200}
45121305	Bennick, J. (1999) AM 3651P: Acute Inhalation Toxicity Study in Rate Final Report Lab Project Number: 4852-98. Unpublished study prepared by Stillmeadow, Inc. 36 p. {OPPTS 870.2400}
45121306	Kuhn, J. (1999) AM 3651P: Primary Dermal Irritation Study in Rabbits: Final Report: Lab Project Number: 4854-98. Unpublished study prepared by Stillmeadow, Inc. 18 p. (OPPTS 870.2400)

45121307	Kuhn, J. (1999) AM 3651P: Primary Dermal Irritation Study in Rabbits: Final Report: Lab Project Number: 4854-98. Unpublished study prepared by Stillmeadow, Inc. 13 p. {OPPTS 870.2500}
45121308	Kuhn, J. (1999) AM 3651P: Dermal Sensitization Study in Guinea Pigs: Final Report: Lab Project Number: 4855-98. Unpublished study prepared by Stillmeadow, Inc. 18 p. (OPPTS 870.2600)
45245700	BioShield Technologies, Inc. (2000) Submission of Product Chemistry Data in Support of the Application for Registration of AM 3651P1. Transmittal of 1 Study.
45245701	Damico, J. (2000) AM 3651P1: Physical-Chemical Characteristics. Unpublished study prepared by SciReg,Inc. 7 p. {OPPTS 830.6302, 830.6303, 830.6304, 830.7000, 830.7100, 830.7300, 830.6315, 830.6320}
45347600	Bioshield Technologies, Inc. (2001) Submission of Efficacy Data in Support of the Application for Registration AM 3651P. Transmittal of 2 Studies.
45347601	Snyder, A. (1999) AOAC Use-Dilution Method: AM 3651P: Final Study Report: Lab Project Number: 7361/SRC021099.UD: 7669/SRC061099.UD. Unpublished study prepared by ViroMed Biosafety Labs. 15
45347602	Onstad, B. (2000) Germicidal and Detergent Sanitizing Action of Disinfectants: AM 3651P: Final Study Report: Lab Project Number: 7457: SRC050699.SAN. Unpublished study prepared by ViroMed Biosafety

Please do not hesitate to contact me or our agent, Mr. Kevin Kutcel at 440-263-7305 if you should have any questions regarding this authorization.

Best Regards,

Mr. Joseph Raich, Manager

Mr. Andrew Robinson, Manager
21/04/2010



INHOLD LLC

1445 Jupiter Park Dr. Suite 11 Jupiter, FL 33458

April 21, 2010

U.S. Environmental Protection Agency Office of Pesticide Programs (H7505C) Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202-4501

Subject: Inhold, LLC Letter of Authorization for PureShield Inc. (Reg. No. 87583-)

To Whom It May Concern:

The following studies are owned by Inhold, LLC (company no. 70871) and this letter grants permission for PureShield Inc. (company no. 87583) to cite the following studies on their data matrices in support of the registration of their products, "Bio-Protect AM500" and "Bio-Protect 7200".

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44351901	Jellinek, Schwartz & Connolly, Inc. (1997) Preliminary Analysis, Certification of Ingredient Limits, and Analytical Method for Enforcement of Limits for BioShield AM 500 and BioShield AM 500 I: Lab Project Number: 13637.0497.6102.250: 102196/830.6317/BIOSHIELD. Unpublished study prepared by Springborn Laboratories, Inc. 13 p.
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	Enforcement of Limits for BST Protectant Concentrate C15: Lab Project Number 102196/830.6317/BIOSHIELD. Unpublished study. 11 p.
44376003	BioShield Technologies, Inc. (1997) Physical and Chemical Properties of BST Protectant Concentrate C15. Unpublished study. 4 p.
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Decision I	No. 457908	Submission	No. 93	1639	Fee	for Service A	ction Code:	
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Type of Data:	PSB Product	PSB Acute Toxicology	PSB Efficacy	RASS Environm Fate	ental	RASSB Ecological Effects	RASSB Chronic Toxicology	RASSE Exposur Residue
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